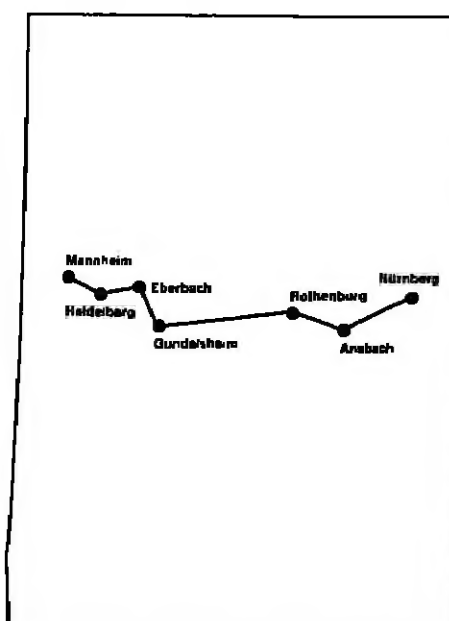


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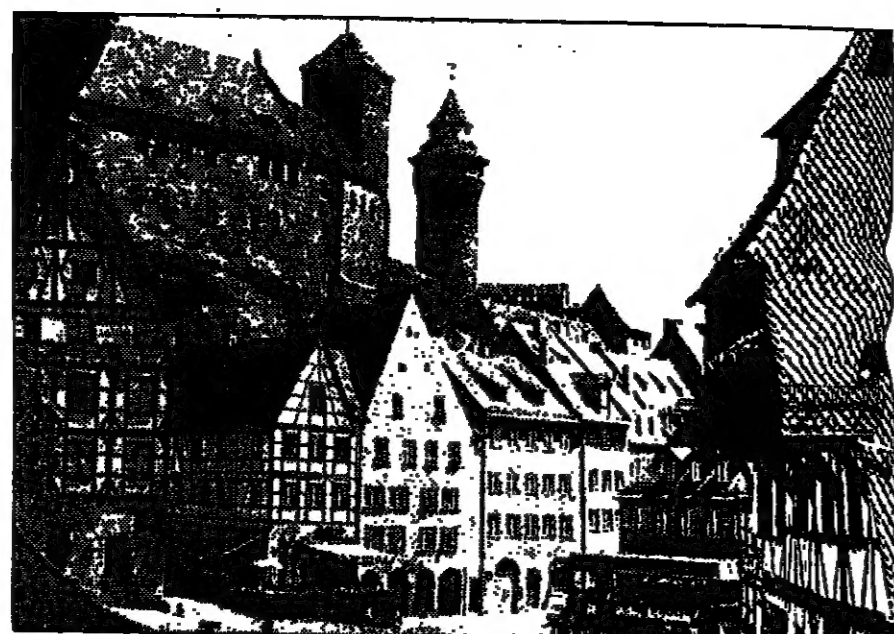
The Castle Route is 200 miles long. It runs from Mannheim, an industrial city on the Rhine with an impressive Baroque castle of its own, to Nuremberg, the capital of Bavarian Franconia. The tour should take you three days or so. We recommend taking a look at 27 castles en route and seeing for yourself what Germany must have looked like in the Middle Ages. The mediaeval town of Rothenburg ob der Tauber is intact and unspoilt. Heidelberg is still the city of the Student Prince. In Nuremberg you really must not miss the Albrecht Dürer House.

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The German Tribune

Hamburg, 26 July 1987
Twenty-sixth year - No. 1283 - By air

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Kohl rides high on visit to China



Bonn Chancellor Helmut Kohl has completed a visit to China where he apparently confirmed his excellent personal relations with senior Chinese politicians. He met party chief Deng Xiaoping for the third time, something of a record for a Western politician (the previous meetings were in 1974, when Kohl was Premier of Rhineland-Palatinate, and in 1984 as Chancellor). Informed sources say that Deng confirmed to Kohl that the Prime Minister, Zhao Ziyang, is to take over as party chief in October. Kohl was the first foreign politician to be told.

One of Helmut Kohl's strong points is his ability to make, to maintain and to use personal contacts.

Ronald Reagan, Margaret Thatcher, François Mitterrand, Yasuhiro Nakasone — the Chancellor gets on well with them all, regardless of differences on specific issues.

A similar long-term, beneficial relationship seems to be in the making between Chancellor Kohl and Chinese Premier Zhao Ziyang.

Despite substantial ideological differences between the German Christian Democrat and the Chinese Communist the spark seems to have flashed over from the one head of government to the other.

There may be a 12-year difference in their ages (Herr Kohl is 57, Mr Zhao is 69), but in terms of the ages of leading politicians in the two countries they could be the same age.

Both are pragmatists. Helmut Kohl has been at the helm in Bonn for nearly five years; Zhao Ziyang will in all probability take over as China's No. 1 in October.

Premier Zhao overwhelmed the Chancellor with protocol tokens of esteem on his visit to Peking. Political talks lasted much longer than planned and Mr Zhao gave two dinners in honour of the German head of government.

The Chinese Premier dealt at length with the trade delegation that accompanied the Chancellor and assured it he would give personal attention to the problems they encountered in economic cooperation.

The benefits of such contacts are self-evident. For an export-orientated economy such as that of the Federal Republic of Germany, which earns a third of its national income from exports, long-term access to the gigantic Chinese market, with one billion people and a wealth of resources, many of which have barely been tapped, is a vital precaution.

It would be shortsighted to think

solely in terms of short-term success. Long-term concepts are the only way to ensure that work — and jobs — will be available in the future.

German businessmen can hardly hope to make a swift deutschemark in the China trade. Their competitors, especially the Japanese, are faster, less expensive and closer at hand.

Herr Kohl was told time and again in Peking that German goods were not only expensive; German exporters showed little flexibility in the financial terms they offered.

The reasons why China still does business with Germany are product quality and German readiness not only to sell the goods but also to share the know-how.

An instance of this flexibility was the offer to help China to reduce its trade deficit with the Federal Republic, a deficit totalling over DM3bn.

With German business backing, the Chancellor was able to offer the Chinese assistance in their efforts to gain a foothold in the German and European market.

In an unprecedented move, trade associations, chambers of commerce and industry and individual firms in the Federal Republic are to advise Chinese exporters on doing business with the West.

Heinrich Weiss, German commercial spokesman on trade with China, is confident the campaign will be a success.

China, he says, has yet to undertake systematic market research in Europe. Advertising for Chinese products has been totally inadequate. Their presentation and packaging have not been in keeping with European tastes.

Chinese exporters have not been represented as aggressively as they might have been at trade fairs.

It remains to be seen how the interests of German importers and exporters are to be reconciled.

Importers are keen to buy goods at the lowest possible cost. Exporters would sooner see China given a chance to earn as much foreign exchange as possible in trade with the Federal Republic so it can pay for goods ordered from German firms.

Mr Zhao called on German industry



Peking meeting. Chancellor Kohl (left) with the heir-apparent of China's ruling party, Zhao Ziyang, the Prime Minister. (Photo: dpa)

to invest more heavily in China and redress the balance of trade.

A mere 19 of China's roughly 1,000 joint ventures are Sino-German joint ventures. The main reason is that most are limited to foreign capital participation, with overseas Chinese doing most business with their fellow-countrymen back home.

German firms would sooner contribute their technological and management know-how. The incentives, from their viewpoint, are favourable production conditions and the opportunity of supplying both the Chinese market and the rest of Asia from facilities in China.

They complained to Premier Zhao that taxes and duties nullified many of the nominal advantages.

Foreign employers, for instance, have to pay high wages to a local intermediary for their Chinese staff — who themselves are paid as little as 15 per cent of the wages paid for them.

This dubious procedure is one with which Chinese trade officials in the so-called special economic zones specially set up for foreign investors have now dispensed.

Shortage of foreign exchange is one main reason for the stagnation — and even slight decline — in Sino-German trade. Uncertainty as to manpower and policy changes in the wake of the 13th Chinese Communist Party congress this autumn is doubtless another.

The Chancellor's visit failed to affect either. Only the German aerospace in-

dustry succeeded in booking an order: a DM50m contract to help develop and construct a Chinese telecom and TV satellite. Even this contract was well below the initially envisaged volume of about DM500m.

Other projects, such as participation in the expansion and modernisation of the Chinese telephone system, the construction of a steel pipeline works and the building of further nuclear power stations, were discussed but not finalised.

Herr Kohl sees Sino-German relations as being based on both economic and political and cultural foundations.

General political ties between Bonn and Peking are good and, in some cases, excellent. They agree that the Soviet Union must withdraw its troops from Afghanistan and Vietnam must withdraw its forces from Cambodia.

They would both prefer to see a zero solution on medium-range nuclear missiles for the entire world and not just for Europe.

Neither the Germans nor the Chinese are at all keen on the idea of these missiles remaining stationed in Soviet Asia and in the United States, with the latent threat they would continue to pose to Russia's and America's neighbours.

China holds the Federal Republic in high esteem as a leading member of Nato and the European Community, both of which Peking would like to see strengthened and consolidated.

Cultural ties are to be strengthened in the foreseeable future by the opening of a Goothe Institute in Peking, a plan that long threatened to founder on resistance by Chinese arts officialdom.

The Chancellor succeeded in persuading Premier Zhao to put his foot down.

The details are shortly to be worked out, paving the way for effective promotion of German language teaching in China.

Herr Kohl is particularly anxious to promote bilateral ties on as permanent a basis as possible.

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WORLD AFFAIRS

Arms limitation talks mark time as Soviet delegates wait for political nudges

The Geneva arms limitation talks between the United States and the Soviet Union are marking time. No progress is being made on the key issues.

This has become the longest round of talks yet. At the start, the momentum was obvious, yet it has ground to a halt.

For some time Soviet delegates have received no instructions from Moscow.

The meeting between Secretary of State Shultz and Foreign Minister Shevardnadze that was to have been held in mid-July has been indefinitely postponed.

Even if it had taken place and the necessary political nudge had been given from above, drafting a treaty on the reduction of intermediate nuclear forces in Europe would have taken until at least the end of November.

Both sides may have drafted fresh versions of their respective proposals, but proceedings so far have been limited for the most part to answering Soviet queries on technical details.

Both still face the daunting task of reaching agreement on times, places and procedures for dismantling and scrapping medium-range and cruise missiles and, above all, on inspection.

The Americans can do no more than guess why.

They assume that Mr Gorbachev is being urged for domestic reasons to realign the priorities for his reform programmes.

The Soviet leader is evidently thought to have come up against the growing opposition not only of officials worried about the power they stand to lose but also of the military and of diplomats opposed to disarmament of any kind.

Questions

When the Soviet Union was confronted, much to its surprise, with the latest US draft proposals on the reduction of intermediate nuclear forces (INF) and strategic arms (Start), its delegates began to ask questions.

The two sides' INF treaty drafts show clear signs of rapprochement. The separation of this for Europe overriding issue from strategic arms limitation talks (Start) remains valid.

The Soviet Union has yet to reply to the US Start proposals, while negotiations on future anti-missile systems, including systems in outer space, are an even remoter prospect.

Then Moscow tabled the demand for the Geneva talks to include the German Pershing 1a missiles and their

Continued from page 1

basis as possible. That is why he feels many more young Germans and Chinese ought to visit each other's country.

He favours an extensive youth exchange scheme with China and plans to increase, as a first step, the number of Chinese students in the Federal Republic from 2,000 to 3,000.

He is also strongly in favour of harnessing the experience of their elders



nuclear warheads (under US lock and key).

America is opposed to this idea, saying the two sides had agreed from the outset that third-state systems or the Pershing 1a "combination" were not to be the subject of negotiations.

This military insignificant demand by Moscow was merely an attempt to exert political pressure on Germany and on Western Europe.

The accusations levelled by chief Soviet delegate Vorontsov in connection with alleged American delaying tactics were based on pure and simple lies.

Given goodwill, swift agreement could be reached, paving the way for a third summit conference between President Reagan and General Secretary Gorbachev.

If the INF treaty is to be ratified before the start of next year's US Presidential election campaign it must be

submitted to the Senate foreign relations committee by the end of January at the latest.

The Kremlin's US experts know this. Why, US officials wonder, is Mr Gorbachev now running the risk of delaying any progress along the lines of the Reykjavik agreement until at least 1991 when Mr Reagan's successor can be assumed to have established himself in Washington?

Are staunch supporters of Mr Gromyko such as Mr Karpov, Mr Obukhov and Mr Kvitsinsky, gradually regaining the upper hand over the "moderns"?

Or has the Kremlin arrived at the conclusion that the long-term political and psychological repercussions of fostering insecurity in Western Europe are more valuable than scrapping Pershing 2 missiles?

No-one in Geneva knows.

For the Americans the US INF treaty draft is a major step in the direction of scrapping nuclear weapons, especially as Moscow would have to lose much more than Washington.

It would also strengthen Nato. The North Atlantic pact would forfeit neither its capacity for graduated re-

sponse to a Warsaw Pact attack nor protection afforded by America's nuclear deterrent.

The treaty might also prove a model for a Start treaty aimed at a 50-per cent reduction in long-range strategic weapons.

But never again, US officials say, is America going to make the mistake of concluding a general arms control agreement merely for the sake of short-term political success at a summit meeting.

The Senate, they say, will only ratify treaties that definitely, verifiably ensure a breakthrough to a reduction in nuclear weapons.

No cause for alarm

At present it looks in Geneva as though that will be a while yet.

America's Nato allies have no cause for alarm, however.

It is now up to them to show the same resolution that made the talks possible in the first place — after the dual-track decision — even if the end may not yet be in sight.

Sooner or later the "last 20 minutes" will begin that chief US delegate Max Kampelman is prepared to sit and wait for. So patience and strong nerves are required.

Jan Reijenberg
(Frankfurter Allgemeine Zeitung
für Deutschland, 18 July 1987)

France finally loses patience with Iran and cuts adrift

In breaking off relations with Iran, Paris has shown that its patience is at an end. Reciprocal accusations of bomb raids and espionage are secondary to the main bone of contention, the supply of French weapons to Iraq, Ayatollah Khomeini's arch-enemy.

France's extensive arms trade has led to tension that Germany, as a non-supplier, has been spared.

The various Khomeini supporters have, for their part, lost any sympathy they might have had by planting bombs in the centre of Paris and holding people to ransom.

Bonn will not be following France's example, but criticism of the move should be limited.

For years Ayatollah Khomeini incited the Iranian people by radio from his French exile against the Shah. His gratitude for French hospitality was brief and limited.

It was transformed into hatred when France began to supply Iraq with weapons.

The French government first sought to come to terms by a policy of meeting Tehran half-way. Islamic pro-Khomeini terrorists were handled with kid gloves. Opponents of the Iranian leader were deported from France to appease him.

and proposed the establishment of what would amount to a council of elders from both countries. Its members would be people well versed in relations between the Federal Republic and China. Their task would be to submit proposals to the two governments on how best to arrange and develop Sino-German ties.

Wolter von Tiesenhausen
(Rheinischer Merkur/Christ und Welt,
Bonn, 17 July 1987)

not, the alleged victim of French violence played his part in an official drama staged to mobilise the Iranian mass against France.

France's cardinal sin is to have supplied arms to Iran's enemy. Iraq means of dubious arms supplies to the United States has succeeded in creating the No. 1 slot as Iran's foremost enemy. France has taken America's place.

Germany does not supply arms to Iraq. It can only hope that the UN Security Council will declare a general ban on arms supplies to the Gulf.

The stuff of conflict that led to the break between Paris and Tehran does not apply to Bonn. But Paris and Bonn have similar experiences in connection with hostage-taking for blackmail.

Bonn still hopes the powerful militia in Tehran will save the lives of the German hostages in Beirut, Cordes and Schmidt. The two men are being held by Lebanese supporters of Khomeini as bargaining counter for the Hamas brothers, terrorist suspects who are due to be tried in a German court.

If the case is tried, Bonn will face a testing time for its policy of patience. A policy Paris has now abandoned.

One can but hope the lives of the five French hostages held in Lebanon are not a write-off.

Hermann Eich
(General-Anzeiger, Bonn, 18 July 1987)

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GERMANY

At last, it's on:
Honecker
to visit Bonn

Frankfurter Allgemeine



Erich Honecker... toed party line with never a false step.

(Photo: Sven Simon)

After several false starts, the East German leader, Erich Honecker, is to visit the Federal Republic. He will be welcomed in Bonn in September with full honours as head of the other German state.

For East Germany the visit as such is a major success. For Herr Honecker, who will just have turned 75, it will be the crowning achievement of his political career. His visit to Bonn adds the last missing link in the pattern of international recognition. For Herr Honecker it has been worth the wait enforced upon him by Moscow.

In December 1981 he was invited by Chancellor Schmidt, at their Werbellinsee meeting in East Germany, to pay the Federal Republic a working visit. After the change of government in Bonn Chancellor Kohl renewed the invitation.

The visit as planned in 1984 was to have included talks between Herr Kohl and Herr Honecker outside Bonn but not, to begin with, a reception for Honecker by the Federal President.

The visit has now been upgraded in protocol terms. Herr Honecker will be welcomed to Bonn on the same basis as Mr Brezhnev on his 1981 visit and as the French President on his working visits to Bonn.

The East German flag will be flown. The East German anthem will be played. Herr Honecker will be given an escort and a military parade will be held in his honour.

He will also be received for talks with the Federal President at Herr von Weizsäcker's official residence.

In contrast to 1984, when Herr Honecker's visit was postponed largely at Moscow's behest, the climate of international affairs is favourable.

After Herr von Weizsäcker's visit to the Soviet Union the Soviet leader, Mr Gorbachev, evidently feels the time is ripe for an improvement in relations between Moscow and Bonn, so one important reason why the Kremlin might put its foot down and veto Herr Honecker's visit no longer applies.

Relations between Russia and America have similarly taken a turn for the better from the Soviet viewpoint. Despite the present difficulties Mr Gorbachev seems to expect the Geneva talks on medium-range missiles to come to a successful conclusion before long.

Herr Honecker's policy of dialogue, pursued despite initial Soviet misgivings, has doubtless contributed toward the improvement in East-West relations.

His "now more than ever" viewpoint on talks with the West not only helped to forestall a freeze after Nato's Pershing 2 and cruise missile modernisation programme; it also abetted the course of foreign policy understanding steered by Mr Gorbachev since he came to power in 1985.

Herr Honecker's visits to Italy, Greece, Holland and China have been helpful for the Soviet leader.

He may not be prepared to adopt Mr Gorbachev's domestic "restructuring"

in East Germany but in foreign policy terms he is a loyal henchman of the dynamic Kremlin leader.

Besides, he can counteract Soviet mistrust of too much intra-German co-existence by noting that the security and disarmament policy dialogue with the Federal Republic is in keeping with the foreign policy line of the Soviet Union and the Warsaw Pact.

For the Federal government, and thus for Germans in East Germany, the visit will only be a success if it contributes toward a lasting further improvement in the position of people in divided Germany.

It will be a while before it can be said whether this has been accomplished. The framework agreement on environmental protection and the agreement on scientific and technological exchange will probably be signed during the visit.

Both are sectors in which, in addition to cultural ties, a substantial degree of expansion and cooperation is both possible and desirable.

How the talks between Herr Kohl and Herr Honecker continue and what agreement is reached on prospects for and key sectors in intra-German relations will be important.

Bonn is interested in ensuring that the order to East German border guards to shoot at would-be refugees from East Germany is countermanded. It is also keen on a further increase in East-West travel, youth exchange and tourism.

East Berlin is interested in ensuring that foreign exchange is available to pay for these measures and in concluding agreements on rail and road construction projects to and from Berlin that earn hard currency.

West Berlin must naturally play a major role in all these agreements. After the failure of Governing Mayor Diepgen's attempt at "visit diplomacy" West Berlin must be firmly entrenched once more in the intra-German debate.

The importance Bonn attaches to the Berlin Question ought to be underscored by giving Mayor Diepgen an opportunity of meeting Herr Honecker during his visit to Bonn.

Bonn and East Berlin are both well aware that Herr Honecker's visit will not mean agreement is reached on the different views held on fundamental issues.

Herr Honecker will not offer reunification and Herr Kohl will not offer to meet the catalogue of demands Honecker listed some years ago in Gera.

What will matter is to embark on further moves toward specific cooperation despite contrasting views on fundamental issues and to relieve tension in intra-German ties.

Peter Jochen Winters
(Frankfurter Allgemeine Zeitung
für Deutschland, 17 July 1987)

The Little Drummer Boy who
rose to the top in East Berlin

Erich Honecker, the East Berlin leader who is to visit West Germany, has many characteristics that people imagine to be German.

He is fond of pork knuckle with sauerkraut. His home, in Wandlitz, near Berlin, is furnished in the heavy style known as "Old German".

Buttermilk is his favourite drink. He is keen on Skat, the German card game, and on hunting.

His favourite headgear is a Panama hat. As a teenager he was a drummer in the brass band back home in Wiebelskirchen, in the Saar.

He is also a convinced Communist whose world view took firm shape in his early youth. The brass band he played in as a tiller's apprentice was part of a Communist organisation.

He played the side drum, his father the bass drum. He modelled himself on his father Wilhelm Honecker, a miner and staunch Communist.

His father, he wrote in his 1980 biography, "explained to me in his simple way why the rich are rich and the poor poor, how wars originate, who profits and who suffers from them. It made sound sense to me. I gained a clear view of the world."

At the age of 10 he joined a Communist children's group. On leaving school he joined the Young Communist League and, at 17, the Communist Party.

He never finished his apprenticeship. After attending college in Moscow he became a full-time party official in 1931. "I can never recall a moment in my life when I ever had the slightest doubt about our cause," he later wrote.

What is he like, this smooth- and poker-faced man? Leipzig Fair visitors will know him as a genial conversationalist who occasionally cracks a diffident joke.

In the politbureau there are times when his fellow-comrades fear his cold gaze and uncompromising rigour.

On the rostrum he is fond of posing as a latter-day father of his people. Yet he is hardly a brilliant public speaker.

He may lack charisma but he isn't such a dry as dust official as his predecessor Walter Ulbricht, from whom he took over as party leader in 1971.

As Ulbricht's heir presumptive he saw for himself how hard his predecessor's style made it for people in East Germany to identify with the state.

Herr Honecker has taken care to choose a different role. He has successfully sought to be a little closer to the people. He has come to be the most popular politician in East Germany and is delighted when people refer to him as "our Erich."

They didn't always do so. When he took over from Walter Ulbricht, whose lack of political flexibility was felt by the Russians to be a hindrance to détente, he was generally felt to be an apparition, tough yet mediocre.

As chairman of the Free German Youth he made it toe the party line. In 1956/57 he was sent to the fore to outmanoeuvre the Opposition faction within the party led by Wolfgang Harich.

A year later he outmanoeuvred the anti-Ulbricht group headed by Karl Schirdewan and Ernst Wollweber.

In 1961 his preparations for building the Berlin Wall were so perfect that it took the West completely by surprise.

Yet no-one really imagined he could ever succeed in making his mark on East Germany as a whole. We now know better. Erich Honecker, who will be 75 next

month, has succeeded in gaining international acceptance for East Germany.

Western visitors, including visitors from the Federal Republic, are keen to meet him. He is well-travelled and his position in East Germany is unchallenged.

Throughout the years his political credo has unswervingly been security at home, demarcation from other countries and unquestioning loyalty to the Soviet Union.

He has added a policy of rubbing shoulders to his policy of demarcation — but on the strict understanding that détente must serve the purpose of consolidating and boosting the internal security of East Germany.

People who have talked with him describe him as uncomplicated and, at times, witty. But he showed the coldness that is also part of his make-up when he relegated his predecessor to oblivion.

Gone were the days when he had said: "We are all Walter Ulbricht." He demonstrated in the immediate postwar period how flexible he is. He toed the erratic party line without putting a foot wrong.

In 1947 he proclaimed: "Long live the indestructible friendship between German and Yugoslav youth!" A year later he said: "For us there can be no friendship with Yugoslav youth."

Caution and circumspection have helped him on his way. Herr Honecker is not given to spontaneity. "You can make many political mistakes by speaking completely off the cuff," he said while still a young man.

He is said to be mistrustful and inclined to withdraw into his shell when he feels he has no allies.

At college in Moscow or in prison in Brandenburg he is always recalled as having been a loner, hard-working but quiet, seldom joining in discussions.

He was imprisoned by the Nazis for illegal party work. Herbert Jung and Martin Tjaden were his aliases.

He spent nearly 10 years in prison before escaping, in March 1945, while working with a group of prisoners in bomb-scarred Berlin.

Yet he returned voluntarily to his unit and was not freed until 27 April when the Red Army occupied Brandenburg.

His escape and voluntary return to prison are not mentioned in his official biography. A further feature of his private life is also taboo for the party, which is most prim and proper where morals are concerned.

Strict silence is maintained about the fact that his marriage with Education Minister Margot Honecker is his second marriage.

When Edith Baumann died in 1973 she was given a long obituary in *Nenes Deutschland* as a deserving party official.

Yet the obituary failed to mention that from 1947 to 1952 she had been married to Erich Honecker and was the mother of their daughter Erika.

This was probably because Margot Feist, then a Free German Youth official, gave birth to Honecker's second daughter Sonja in 1951.

Not until after the intervention of Walter Ulbricht, who was worried about the damage the affair might do to the party's reputation, were Honecker and his first wife divorced.

He married Margot, 15 years his junior, in 1953.

Hans-Werner Einecke
(Hamburger Abendblatt, 17 July 1987)

DEFENCE

Generals not happy at tight rein on spending

Hannoversche Allgemeine

The Bundeswehr says it needs another 500 million marks a year to fulfil its defence role. But the indications are that it is not going to get it.

Present government intentions are to allocate 18.1 per cent of next year's budget to defence. In the 1991 estimates it is also envisaged at 18.1 per cent.

Bundeswehr inspector-general Dieter Wellershoff says this allocation might just be enough to maintain combat strength, but that strength could not be increased in the long term.

The Bundeswehr will run short of manpower in a few years when babies of the low birth-rate years reach conscription age. But it is also likely to run short of ammunition, tanks and guns too.

Will disarmament no longer be negotiated at the MBFR troop cut talks conference table in Vienna but by simply fiddling with the defence estimates in Bonn?

The first point to make is that the clash between military demands and budgetary constraints is neither an invention of the present Bonn coalition nor limited to the Federal Republic.

Nato supreme commander General Rogers' demand in 1978 for an annual increase in defence spending of three per cent in real terms has yet to be met by any member of the North Atlantic pact.

The trend in defence spending in Europe is down.

The financial framework of Finance Minister Stöckert is, of course, no more than a direction sign. Decisions

have not been reached: neither on the cash nor on the cuts the military will need to make.

Next year's defence estimates will amount to 18.1 per cent of Bonn budget spending; the 1991 estimates only 18.1 per cent, which shows that the Bonn government does not see defence spending as sacrosanct.

Defence Minister Manfred Wörner cannot be satisfied with these estimates and will clearly fight for every extra mark — as he has already indicated.

Whether the DM500m more a year the Bundeswehr is said to need to fulfill its defence role in a manner appropriate to the threat is enough is another matter.

The armed forces will have enough tanks, ships and field artillery until the end of the century.

The costliest current project, the DM20bn fighter aircraft under joint development by Britain, Germany, Italy and Spain is clearly still called into question — and more vehemently than ever.

Unit costs for the plane are already DM100m — and that at a stage when not even the definition phase has been completed.

Already many experts are afraid the fighter's cost may skyrocket like that of the Tornado, a previous European combat aircraft project.

So the new slogan is to boost the potential of existing systems.

Existing weapon carriers are to be modernised to ensure they are up to the latest technological standards. The 7 July Bundeswehr planning conference clearly endorsed this approach.

There is, of course, a connection between the taxpayer's outlay on the armed forces and the security they provide.

Outmoded weapons stand no chance of beating a better equipped opponent. So it would be pointless not to equip the Bundeswehr with the latest material.

A country such as the Federal Republic, which had no choice but to accept the vicious circle of the arms race, cannot suddenly impose a unilateral freeze — unless agreement is reached with the other side.

New ideas can transform entire weapon categories into junk. Every move in weapons modernisation triggers its counter-move in a never-ending spiral.

How effective modernisation and counter-modernisation are and whether they are decisive cannot be simulated by a computer nor yet be extrapolated from budget statistics.

So claims that defence estimates at one level make it possible to defend the country in a manner corresponding to the threat whereas another level fails to do so are merely digital games.

The very definition of what makes up the threat is wide open to interpretation. An increase in combat strength can never be seen in absolute terms, only ever in the reciprocal context of the adversary's abilities and opportunities.

Justification

So it is advisable not to take the explanations the military put forward in support of their cash claims too much at face value.

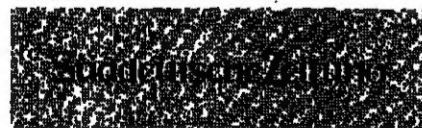
They are bound to be military in nature, but military matters have grown so complex they can be used as a justification for virtually any demand.

The decision is, in any case, up to the Bundestag, which assesses the cost of defence in connection with the overall context of services the state is expected to provide.

That, in the final analysis, will depend on what the Bundestag feels it can justify to voters.

Hans-Anton Papendieck
(Hannoversche Allgemeine, 13 July 1987)

Determination to press on with anti-tank helicopter



The new fighter is said to be the last high-performance combat aircraft in its category planned between now and the year 2020.

Ministry officials continue to lament the general financial constraints envisaged in the years to come.

Planners say they will be DM44bn short of initial estimates of cash required until the end of the century.

This being so, the claim that conventional fighting strength can be maintained is said to be optimistic. A 20-per cent decline in combat capacity is likely in the mid-1990s.

So the 9 December Cabinet session at which a decision is to be arrived at on higher expenditure in medium-term financial planning is keenly awaited at the Defence Ministry.

Yet officials already have no hope of sufficient additional funding being made available.

Serious problems in connection with the concept for the Bundeswehr's defence role are predicted if, as expected, sufficient funds are not forthcoming.

In the 1990s, it is argued, heavy expenditure on recruitment will be indispensable on account of the manpower shortage. That will make the armed forces more expensive.

Setting estimates at too low a level would thus be to seriously jeopardise manpower strength, especially as the latest figures indicate that sanguine hopes of recruitment in the years ahead will probably need to be revised.

The reported statement by army inspector General von Sandrart at the defence planning conference (he doubted in the circumstances whether the forward defence concept could still be upheld) has accordingly not been expressly disputed by Ministry officials.

Defence Ministry planners also feel that forward defence will be impossible with fewer soldiers than expected. Nato in general has long been reduced to a bare operational minimum.

(Süddeutsche Zeitung, Munich, 16 July 1987)

Equalities out of troop-cut inequalities

Federal government thinking on the conventional deterrent incorporates the consideration that there is little geographical or strategic point in attaching equal importance to troop cuts all over Europe.

Bonn is determined to differentiate regionally, aiming at uniform troops in specific areas on either side.

They are, for instance, the Soviet Union west of the Urals in the East, Spain and Portugal in the West, Central Europe on both sides of the border between Nato and the Warsaw Pact, the Kola peninsula and Norway on Europe's northern flank and on its southern flank Hungary and Bulgaria in the East and Italy, Greece and Turkey in the West.

A balance must be established in each of these pairs of regions.

There are also misgivings in Bonn that Soviet supremacy could be cemented if disarmament were to go ahead at the same rate from the same time on both sides.

Two lines of thought are under consideration to rule out this risk. Either the superior side starts cuts first or different pace of disarmament is agreed for each side.

Defence planners are worried the even a limited degree of conventional disarmament by the West could mean serious setback to the concept of forward defence.

That, among other reasons, is why the overriding disarmament planning aim of Bonn Defence Ministry officials is to reduce invasion capacity on both sides.

Where nuclear disarmament is concerned, Ministry officials are for the moment concentrating on the consequences of the initially controversial double zero solution for medium-range missiles.

In this context US reports that the Federal government is now prepared to dispense with the updating of short range (120km) Lance missiles planned for the 1990s are categorically denied.

Modernisation of these systems, including an extension of their range to between 240 and 450km, continues to be deemed desirable.

But Bonn has no interest in increasing numbers. It is strictly opposed to bridging gaps left by medium-range missile reduction by stationing a larger number of shorter-range missiles.

Defence Minister Manfred Wörner, addressing the Konrad Adenauer Foundation on problems of conventional disarmament, said Nato needed an integrated concept combining military security and disarmament.

The aim must be to fundamentally restructure the European security landscape with a view to lasting stability, balance of power and reduction in invasion capacity.

"In referring to the threat," he said, "we do not imply that the Soviet leaders intend to attack the West or are intent on waging war."

"The threat as we see it lies in invasion capability and in its effect on the ability to act and the independence of European states in peacetime."

Thomas Meyer
(Kölner Stadt-Anzeiger, Cologne, 15 July 1987)

PERSPECTIVE

Soviet Germans dream of going west, going home

RHEINISCHER MERKUR

Ethnic Germans in the Soviet Union have repeatedly demonstrated on Red Square in Moscow, demanding to be allowed to return home.

They only succeed in congregating for a few minutes before they are detained by security officials, but long enough to draw the attention of international opinion to their plight.

They refer to West Germany as home. Yet it is a country they have never seen. It is also a country the Soviet media treats harshly.

Their idea of home is the Germany from which their forefathers migrated to Russia in the 18th and early 19th centuries.

Until the Second World War there were roughly 1,000 German colonies in the Ukraine. On the Volga there was even an autonomous Volga German Soviet republic, with Engels as its capital.

Russian Germans never forgot the old country, but they had no difficulty in seeking and finding new homes in the Ukraine, on the Volga and on the Black Sea.

Even after the October revolution and the creation of the Soviet Union they seemed able to adjust and survive

— until Hitler's invasion caused Stalin to suspect Russian Germans of collaborating.

He banned them, deporting them east of the Urals, where they still live in several Soviet republics. Many find it hard to see Kazakhstan, Kirgizia and Tadzhikistan as home.

Mandatory patriotism is not enough even to provide moral support to help them overcome the deprivation of rights and humiliation they underwent.

They were rehabilitated under Khrushchev in 1964, but this did not go as far as allowing them to return to their old homes in European Russia or of setting-up of autonomous areas where they now live in large numbers.

In Kazakhstan there are roughly 900,000 ethnic Germans, and a further 700,000 or so in the Asian part of the Russian Soviet Union.

Only they and the Crimean Tatars are still denied the right to self-administration and return to their original settlement areas.

Both points preoccupy Russia's ethnic Germans more than many might like to imagine. They occasionally revisit their former villages and towns round Saratov on the Volga, and their descriptions call to mind visits to East Prussia, Silesia or Sudeten Germany by former German residents.

Changes are registered. The old school is visited. Childhood is recalled.

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Ethnic Germans in Russia listen to a Soviet officer. The backdrop shows photos of Lenin and other Soviet motifs and the banner poses a question about where home is.
(Photo: TASS/Torgues)

No mention is made of a possible return. That is ruled out.

Autonomy is another matter. Since Mr Gorbachev embarked on his policy of *glasnost* people have dared to reconsider the idea.

It is, for the most part, the new intellectuals among Russian Germans who favour the creation of an autonomous region, arguing that it would boost their fellow-countrymen's loyalty to the Soviet Union.

Despite a drastic reduction in the number of exit permits issued in recent years 65,000 have applied to leave. They have little interest in autonomy in Kazakhstan: they want to go home, by which they mean the Federal Republic.

To read *Neues Leben*, the German-language newspaper published in Moscow, is to be told a different story of the Russian Germans' love of the Soviet fatherland, sense of duty and determination to construct socialism.

Regular reports tell the tale of people "persuaded" to migrate to the West who have failed to come to terms with life here and bitterly regret having applied for exit permits.

Disappointed returnees are interviewed at length. Passages from letters, especially disparaging descriptions, are quoted. In vain, of course.

Anxiety

Soviet reality, not Western persuasion, is what prompts ethnic Germans to apply for exit permits. They are anxious to ensure an identity and a future for themselves and their children.

Confidence in the state and in a future in the Soviet Union will be strictly limited for as long as no mention can be made of past and present.

Readers simply don't want to know when Johann Scharf, a member of the presidium of the supreme soviet of the Kazakh Soviet Socialist Republic and hero of socialist labour, tells his "dear fellow-countrymen" in *Neues Leben* how humane his family's evacuation from Rostov was during the Second World War.

And even he admits that his tale might be considered untypical.

Yet other voices can be heard — and must not be ignored. On New Year's Day *Neues Leben* published interviews with six German-language members of the Soviet Writers' Association.

"A well-known journalist," said Herold Belger, "constantly asks me why we

Soviet German writers don't write as boldly and grippingly as Aitmatov, Rasputin and Astafiev.

"Why not, indeed? Well, I think I know why, but how am I to explain it to the others?"

"We talk about a new era, restructuring, accelerating, a wind of change. But are we writers not humming old songs? Can we not hear the new ones? Or don't we want to hear them?"

One wonders whether they can still sing their old songs. German is dying out in the Soviet Union. Only just over half the two million Russian Germans say German is their native language. Educational standards are low, mistrust is widespread.

Without a doubt the establishment of the German theatre in Temirtau, Kazakhstan, in 1980 was an event of cultural importance. German-language writing by Russian Germans has undergone remarkable development in recent years.

It is in the process of parting company with prescribed clichés. But German language teaching at school remains unsatisfactory. Fragmentation of ethnic Germans has encouraged assimilation.

As matters stand, most of the Russian Germans will remain in their new settlement areas east of the Urals and in Central Asia.

Should liberalisation begin and take root in the Soviet Union, the German minority could gain greater self-confidence — and, perhaps, a limited degree of autonomy?

It is far from inappropriate to consider these issues in the West. What Russian Germans expect from the Federal Republic is tactful and realistic assistance in two respects.

First, Bonn must support the exit permit applications of those who want to leave the Soviet Union. Second, it must give Germans who stay in the Soviet Union greater cultural backing.

Both are virtually impossible at present and the extent to which they are possible in future will largely depend on how far suspicion between the two countries (and between the Soviet Union and its own citizens) can be reduced.

The yardstick will, in the final analysis, be the free decision of Russian Germans to choose their own home and settle down in it.

Franz Heinz
(Rheinischer Merkur/Christ und Welt,
Bonn, 10 July 1987)

FINANCE

A whiff of provincialism drifts across on the urbane stockmarket air

A new dimension has been added to the West German stock markets. A four-year long bullish market not only brought the wildest price rises for decades but also an explosion in the volume of trade.

Technical and organisational innovations helped West Germany to gain ground, particularly against London, the traditional European financial fulcrum.

But despite developments they are still considered to be underdeveloped. Many specialists say they detect a whiff of provincialism in German stock exchanges.

One yardstick for the relative backwardness or progressiveness in the development of a trading centre, within the framework of a world market which is developing closer ties, is the number of equities quoted on the exchange.

London led the world in 1986 with 2,400 quotations. New York followed closely with 2,300. At a respectable distance came Tokyo and Toronto with about 1,200 each. Frankfurt stands behind Paris and Amsterdam but ahead of Zurich with about 400 quotations.

One has to look way down the east-list to find Düsseldorf, Munich, Hamburg, Berlin, Stuttgart, Bremen and Hannover, which are the other seven West German exchanges. However the turnover is a more reliable indicator of an exchange's importance than the num-

ber of firms quoted. As the old speculators in Germany say "What's being spent is what counts."

If one's yardstick is share turnover, then West Germany fares a lot better.

Admittedly the difference in turnover between Frankfurt and New York and Tokyo is even more enormous. But for all that it's still 10 per cent. In comparison to the former world leader, London, the Germans, taken together, have drawn level.

The problem is that the German exchanges are as yet not united. A study group headed by Rüdiger von Rosen former Bundesbank manager, is trying to achieve a slow but sure integration.

They have visions of a common computerised network and data publications.

But they appear to lack the necessary will to do so. The dukes of the stock exchange are no more prone to collective reasonableness than EEC or other ministers are.

Gerhard Burk, chairman of the board of directors of the Stuttgart exchange, is one of several experts who believe that the trend towards more intensive concentration of markets may end.

He says it is just as plausible that close electronic integration of the exchanges will give rise to open international markets independent of trading centres. Such markets would be independent of certain time restrictions.

Experience shows that such thinking is little more than wishful. Even technological progress in trading techniques failed previously to prevent a strong concentration of share business from taking place. And this failure has been regional as well as national.

The Frankfurt exchange deals with about 50 per cent of all daily share-dealings in West Germany. Düsseldorf handles about 20 to 25 per cent and the rest are divided up among the other six regional centres, with Hamburg and Munich having a bigger say than the others.

Things look a lot different when it comes to allocating turnovers to the different individual shares and stocks.

The top 10 in this league regularly includes Siemens, Daimler and Volkswagen, Bayer, Hoechst, BASF, Deutsche Bank, Dresdner Bank and Commerzbank together with its insurance sister-company Allianz Holding.

According to mood and department, business outlook, other extensive joint-stock companies such as Veba, Mannesmann and Thyssen the more specialised BMW and Conti-Gummi, which he moved up in the last few days, move the top of the league.

The 10 stocks with the highest turnovers together often make up nearly three quarters of the all turnovers of 70 national large stocks.

The concentration on blue-chip stocks is more evident if instead of just regarding the first 10, one looks at the first 15.

Concentration can cause problems because it may lead to a conglomerate of interests. All the evidence available would seem to suggest that the present trend in capital markets is likely to continue in the future.

For German markets it's the price they have to pay for becoming truly international. Especially as many German companies have themselves become multinational.

A post once said something that can be freely interpreted about the trend of centralisation. "Where the danger is greatest the saviour must be." In other words, rules and methods to prevent unbridled use of power.

Elmar Kowalski

(Süddeutsche Zeitung, Munich, 11 July 1987)

Accusations and denials fly over planned increase on VAT

The opposition SPD is accusing the government of trying to disguise its intention to raise VAT by one or two per cent to finance part of its tax-reform programme.

Government politicians strongly reject the criticism. But Franz Josef Strauss, the Bavarian Premier, and others, say that an increase in VAT was being considered, but only as a way of keeping the European Community solvent.

Statements like this show that Bonn does want to see the EEC tackle the long-wanted harmonisation of its different national tax systems.

But, at the same time, if Bonn's proposed tax reforms do require the support of a VAT increase to 15 or 16 per cent by the 1990s, then the EEC will already be in place as a convenient whipping boy.

But what does harmonisation of the European tax systems really mean? To the champions of the idea it means streamlining Europe's many different VAT systems.

The differences range between 12 per cent in Spain and Luxembourg to 22 and 23 per cent in Ireland and Denmark.

Yet these differences are not the sole causes of the problem. It's more often unevenly applied rates within national borders which create chaos.

West Germany for example has a standard rate of 14 per cent and a half rate of 7 per cent on certain items like specific foods and taxi fares, for example. The Italians have a normal rate of 18 per cent, with allowances on some goods of two or nine per cent, and of 38 per cent on certain luxury goods. The French have a similar rate on many goods. Belgium and Spain have also rates of up to between 25 and 33 per cent.

These figures would indicate that West Germany has low VAT and increasing it would not be painful.

But one must take into account Germany's trading tax, which pushes the tax load into the upper reaches. It also has one of the highest income-tax rates in

the EEC and, as a result, belongs more to top end of the tax market. So there is not as much justification for increasing value added tax as there at first seems. The whole it is not possible to harmonise taxation spread by simple corrections of the tax rates. This method simply does not take in account variations and weightings within the different national systems.

For this reason, harmonisation has fluid and indistinct meaning to European tax experts. In their opinion the rates should fluctuate no more than 25 percent upwards or downwards. Although they admit that even this goal is unlikely to be reached in the foreseeable future.

Because of this the EEC has a 22 standstill agreement with which it hopes to stop the tax rates from drifting even further apart.

This agreement has worked up till now, having achieved a certain calm on the taxation fronts.

Using harmonisation as an argument therefore cuts no ice with West Germany. Although in 1986 an increase in value added tax which brought in DM111bn was justified by the higher EEC contributions which had to be made. At the same time it is not clear how much Bonn will have to contribute in order to help prevent the EEC going bankrupt.

According to the latest estimates it is going to take billions. But the politicians know that an increase of one percent means an increase in revenue of about DM10bn.

It is unlikely that future discussions about higher VAT will in the long term be restricted to some kind of tax reform or restricted to just Europe. Norbert Blum, Minister for Employment, said in an interview: "I believe that in the future that we will move away from a taxation of work and towards a taxation of consumption."

Taxation of this kind has not yet found a place in West Germany. But many have been thinking on these lines

Continued on page 13

INDUSTRY

Daimler-Benz chief executive steps down as dissatisfaction grows

The takeovers of AEG, MTU and Dornier have turned Daimler-Benz, the Stuttgart motor makers, into Germany's largest industrial group. Consolidated 1986 turnover is estimated to have been DM65.5bn, 25 per cent up on the 1985 figures (which did not, however, include AEG). Carmaking accounts for 48 per cent of group turnover, commercial vehicles for 27 per cent and AEG, MTU and Dornier for 17, 4 and 3 per cent respectively.

The carmaking division also accounts for the lion's share of profits. Commercial vehicles are reported to run at a profit too, but not even Daimler-Benz will be able to withstand the pressure on prices (and earnings) resulting from worldwide surplus capacity.

At the end of 1986 the group had a payroll of about 320,000.

Daimler-Benz has for years been the country's largest corporate taxpayer. Last year the Daimler-Benz AG paid a record DM3.4bn in earnings-related tax. A new management structure was introduced in the New Year, with cars, commercial vehicles, AEG, MTU and Dornier as separate divisions and other departments in charge of finance and management, research and technology, materials, personnel and marketing.

(Frankfurter Allgemeine Zeitung für Deutschland, 14 July 1987)

Werner Breitschwerdt has been sacked as chairman of Daimler-Benz's board. Nobody of course is talking about a sacking. Breitschwerdt has merely asked to be released from his contract, which runs to the end of next year.

Yet only days before, Breitschwerdt had told the *Frankfurter Allgemeine Zeitung* that not only was he aiming to have his contract renewed, but renewed on his own terms.

Professor Breitschwerdt was appointed head of the board in 1983 in succession to the late Gerhard Prinz. But doubts grew that this was the right appointment. The doubts have increased.

Alfred Herrhausen, the firm's supervisory board's chairman as well as joint chief executive of Deutsche Bank, Germany's largest, has long thought that Breitschwerdt's appointment was wrong.

Breitschwerdt is a highly skilled engineer. If Daimler-Benz had stayed with making cars, he might well have stayed longer at the helm. But the company has been diversifying: it took the remaining 50 per cent of engine makers MTU; then it took over aerospace firm Dornier; and then a majority in AEG. And with each step, the more obvious of his management shortcomings grew.

He was considered to lack strategic planning skills needed to integrate the new subsidiaries. To keep up appearances, he was appointed supervisory board chairman, but since last year, the

group has effectively been run by a committee chaired by Edzard Reuter. This spring Reuter was appointed vice-chairman of the board. It was a significant appointment. Reuter is the son of Ernst Reuter, the Social Democrat politician who was Mayor of West Berlin

after the war. Edzard Reuter was in the running to succeed the late Gerhard Prinz in 1983, but he was, like his father, an SPD man, and that stood against him. Some people were unable to imagine a Social Democrat at the helm of one of Germany's blue-chip companies.

Now Reuter has been dealing direct with Dr Herrhausen and bypassing Professor Breitschwerdt. Even the process of diversification was carried out almost over the head of Breitschwerdt. Most of the negotiations were done by Reuter and another director.

This is the way it all happened: Daimler-Benz worker directors from all over Germany converged on Stuttgart in mid-July to prepare for a supervisory board (upper board in the two-board system) meeting convened at short notice by chairman Dr Herrhausen.

The meeting was held to herald the end of an era: Breitschwerdt's term as chairman of the board of directors (management board).

Dr Herrhausen had decided to play the part of Alexander the Great and sever the Gordian knot that has beset the management of the blue-chip company with the largest turnover in Germany.

Since last spring it has been as plain as a pikestaff that trouble was brewing. At the 11 March supervisory board meeting (held, as it happens, a day after the story broke that Volkswagen had lost DM500m in foreign exchange dealings) Dr Herrhausen had Edzard Reuter appointed vice-chairman of the Daimler-Benz board.

Herr Reuter has long been Daimler-Benz director in charge of finances. But vice-chairman of the board? Daimler-Benz had never had one before.

The appointment was said at the time to have been made to "enhance management efficiency." But the writing was on the wall and Professor Breitschwerdt is now to go.

But first, Dr Herrhausen first had to clarify matters at Deutsche Bank, where his own predecessor as chief executive and Daimler-Benz board chairman, Wilfried Guth, had backed Professor Breitschwerdt in December 1983 after the unexpected death of Daimler-Benz chief executive Gerhard Prinz.

Herr Guth is now supervisory board chairman at Deutsche Bank, so Dr Herrhausen had first to consult his own watchdog and get him to agree to drop Breitschwerdt, whose appointment he had endorsed on mainly political grounds.

Back in 1983 Herr Reuter, a Social Democrat, was already in the running for chief executive. But Herr Guth simply couldn't visualise an SPD man at the helm of Germany's bluest of blue chip



It's all a matter of marks and pennings... Breitschwerdt (left) and Reuter.

companies. If the Stuttgart carmaker had stuck to making cars, Professor Breitschwerdt as a highly-skilled engineer could easily have stayed at the helm beyond his 60th birthday on 23 September. The Dornier takeover was prompted by disagreement among the heirs to what had been a family firm. AEG in contrast, who had to call in the receivers a few years ago, are well on the road to recovery.

So a Social Democrat is to take over at the helm of Daimler-Benz. Is this the "cultural revolution" Dr Herrhausen says a company needs every 15 to 20 years if it is to develop? Definitely not, where hopes and fears in respect of party-political affiliations are concerned.

Herr Reuter — cool, intelligent, an egghead — sees himself first and foremost as a company executive and unflinchingly complains of the heavy tax burden, in comparative terms, imposed on firms in the Federal Republic of Germany.

For some time he has been rumoured to be in line for the economic affairs and/or finance portfolio in a Social Democratic Bonn Cabinet, but the rumour probably amuses him more than flatters him.

Unlike many other Cabinet members he would undoubtedly know what he was talking about, but that alone is not sufficient qualification in Bonn, and he has never seriously considered the option.

His aim, although he has outwardly remained loyal — to the point of self-denial — to Professor Breitschwerdt and to his predecessors Gerhard Prinz and Joachim Zahn, has always been to make it to the top at Daimler-Benz.

It is hard to envisage Reuter, a brilliant thinker and speaker, self-assured to the point of arrogance, agreeing to go along with the ploy Dr Herrhausen is reported by the Hamburg news magazine *Der Spiegel* to be considering.

Herr Reuter is said to be envisaged as a stopgap to pave the way for Helmut Werner, the 50-year-old chief executive of Continental, the tyre manufacturers.

Now Conti have taken over General Tire and Rubber, Herr Werner has reached the helm of an international tyre group. He is said to be in line for the Daimler-Benz board job in charge of materials.

One point may tell against Herr Werner at the Daimler-Benz supervisory board meeting. For months he has been fancied to take over as chief executive of Audi, the Volkswagen subsidiary, as chairman of the parent company and, now, as crown prince at Daimler-Benz. Management history in Germany has often shown rumours of this kind to do a candidate more harm than good.

Jürgen Klotz

(Frankfurter Rundschau, 14 July 1987)

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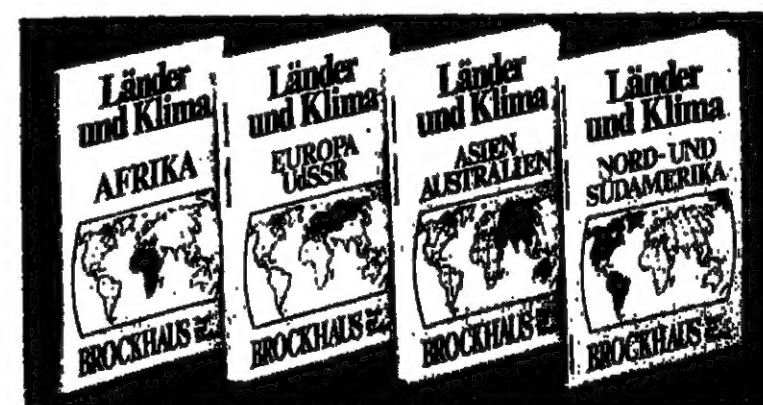
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■ AVIATION

Airlines find training pilots jointly is safer, cheaper

RHEINISCHER MERKUR

Swissair and Lufthansa are in competition for passengers and air freight. But they cooperate on the training of pilots.

This joint approach has two advantages: it saves money and increases safety. The idea has been so successful that other airlines are taking a great interest in it.

The Futura schedule was jointly devised by Swissair and Lufthansa in 1982. It means greater safety in training because it is a concerted effort using combined resources to develop training methods.

Most European airlines have experimented for years but have been slow to devise suitable training routines; they used to rely mainly on former military pilots.

For years there were only two major airlines in non-communist Europe — Lufthansa and Alitalia — that ran pilot training facilities of their own.

The Swiss Aviation College is not, strictly speaking, a Swissair institution — although the airline has a major say in its activities.

Yet the Italians of all people are keen to team up with the Futura twosome as soon as possible, and they look like being followed by others.

SAS set up an aviation college two years ago. It is run as a civil aviation training facility but in reality is managed by the military and is largely modelled on the Lufthansa staff college in Bremen.

In Britain, after an eight-year break, a new civil aviation college has been set up by British Aerospace.

Air France trains its pilots at the government aviation college SFACT in Saint-Yan, while KLM pilots are trained at the government aviation college and at a private college in Maastricht.

All these airlines are following the progress of the German-Swiss project with keen interest, especially as they share a problem faced by Lufthansa and Swissair.

It is that more pilots than ever are needed to man larger fleets, which in turn means hiring more trainees.

The Bremen college can select its annual intake of 180-odd trainee pilots from thousands of applicants. The Swiss aviation college, with an annual intake of 64 trainees, has a harder time of it.

Applicants must be in good health. They must technically gifted. Their reactions must be first-rate. They must also be fluent in German and English.

That, oddly enough, poses problems in multilingual Switzerland.

In the 1970s, when only 30 to 40 pilots a year were needed, Swissair had to hire many German, Scandinavian, Dutch and American pilots, most of whom are now fully-fledged captains.

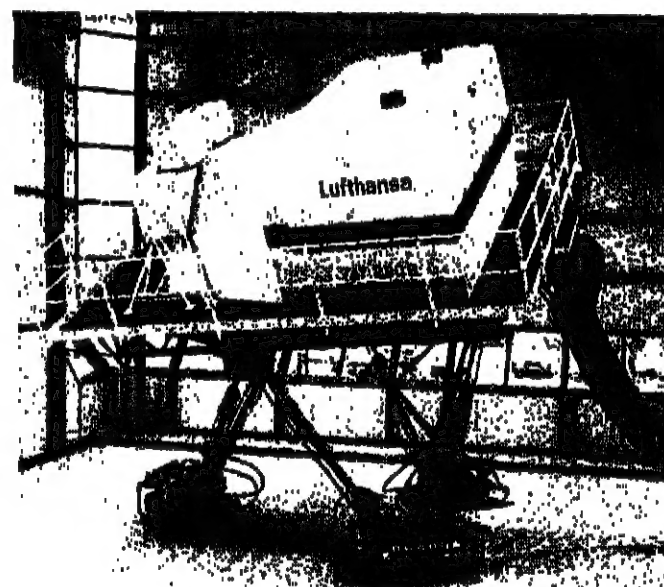
The situation has since improved. The annual 64 trainees are more readily found. "Swiss educational standards have improved," says Paul Lüthi, Swissair's head of training.

Most trainees come from German-speaking Switzerland and between 20 and 30 per cent from the French-speaking cantons.

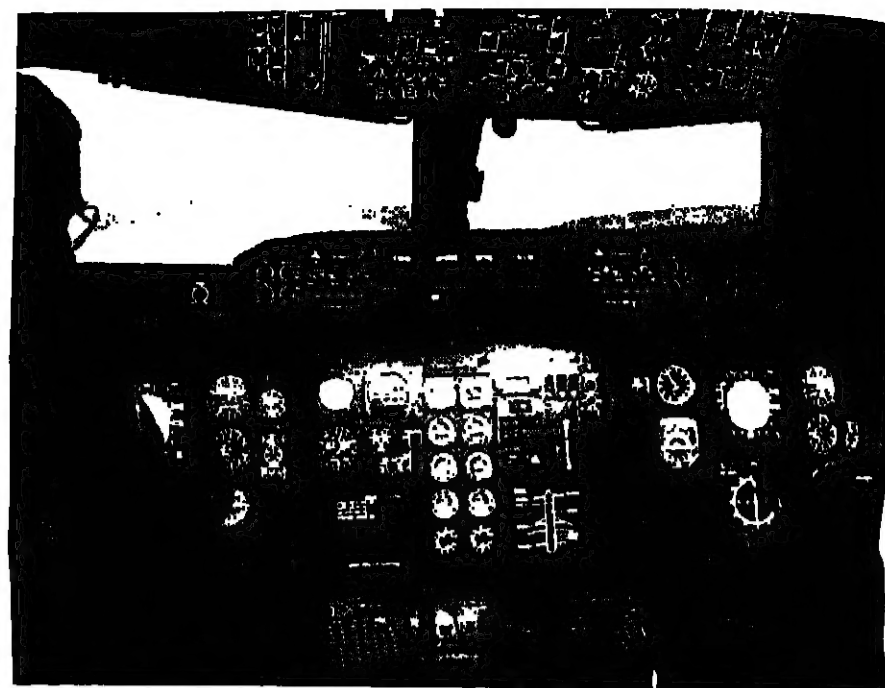
"We very seldom have trainees from Italian-speaking Switzerland," he says. "One or two a year at most, and sometimes not even that many."

Instructors agree. "This year we have more women trainees than Italian Swiss," they say.

German is, by the nature of things, the language of instruction at the Swiss aviation college. That makes collabora-



Rough weather within four walls... A Lufthansa flight simulator. (Photos: Lufthansa)



That down-to-earth feeling... In a flight simulator.

tion with Lufthansa easier — but not learning the trade for French- and Italian-speaking trainees.

They must, in effect, be trilingual if they are to qualify as Swissair pilots.

Safety first and reliability are the keynotes of flight training in Zürich. In 28 years Swiss-trained pilots have been involved in only three serious accidents.

With safety in mind even more simulators are to be used in training. "Our main objective is not to reduce the number of hours logged in the air," Lüthi says, "but to improve the quality of training. There are critical flight phases and manoeuvres that can only be practised in a simulator."

Lufthansa and Swissair are agreed on this point. Three modern simulators will back up the Bremen college's Piper Cheyenne II training aircraft.

Lufthansa Flight Captain Dieter Harms, head of the college, says: "The electronic cockpits of commercial airliners to come make it necessary to brief trainee pilots on technical and conceptual aspects of modern flight control systems from the outset."

Swissair DC 10 captain Dieter Baumeister, one of many German pilots who went to

Switzerland in the 1960s, is Dieter Harms' opposite number responsible for Futura cooperation.

Baumeister was a former F 104 bomber pilot with the Luftwaffe in Memmingen. He and Harms are both German pilots and thus have much in common.

Baumeister, who officially heads the training facility and is deputy head of the Zürich college, sees Futura collaboration as follows:

"We can nowadays be sure that simulator training will achieve the same objectives as training in the air."

"I am confident we will one day be able to carry out satisfactory test and refresher course flights in the simulator — provided the authorities will accept the idea."

"The practical consequences are self-evident. Simulator training saves money. It is safer and reduces environmental pollution."

"People have grown more keenly aware of the need for environmental protection. We can play our part with new training courses and facilities," Baumeister says.

"That only goes to show how beneficial modern technology can be."

Baumeister, who regularly commutes between Zürich and Bremen, has no doubts about the success of cooperation between the two airlines.

"It couldn't be better," he says. "And when bottlenecks occur in training we are treated well — you might almost call it preferential treatment."

"We certainly aren't put to disadvantage. Our trainees get a very fair deal of the whip."

Karl Morgenstern (Rheinischer Merkur/Christ und Welt, Bonn, 10 July 1987)

■ TRANSPORT

Solar-powered vehicles are still in the shade, but...

SONNTAGSBLATT

Many motorists and fans of high-powered Formula 1 racing turn up their noses at solar-powered cars. They see solar panels, collectors and batteries as little more than a hobby for cranks and crackpots. And they're right — up to a point.

When solarmobiles are exhibited at car shows or the annual Tour de Sol race is held, the cars look more like Heath Robinson contraptions than the shape of transport to come.

Many are not readily identifiable as motor vehicles. They look more like a combination of pushbike, rickshaw, tricycle and soapbox.

Yet solar motorists go in for more than a mere hobby. Solar power plays an increasing part in the debate on future modes of transport. Many experts see solar-powered battery-run vehicles as ideally suited for local traffic.

They are inexpensive to run, waste no fuel and do little or no damage by way of pollution.

It may be years before dreams come true and they are a practical proposition, but developments are making headway by leaps and bounds.

"We can already work on the assumption that solar cars will be used in everyday life," says an optimistic Urs Muntwyler. He should know. As manager of the Tour de Sol he has followed their progress for years.

His optimism is based on the advantages solar cars have over conventional vehicles. They emit no exhaust and are virtually noiseless. Their electric motors also use energy more efficiently than conventional combustion engines.

The ordinary car engine wastes about 80 per cent of the energy in motor fuel as process heat. Good electric motors convert roughly 80 per cent of their energy into motion.

Many problems remain to be solved before the solar car runs off the assembly line. Energy supplies are one drawback. Rooftop solar panels are not really much use — even though they are obligatory for vehicles that take part in the Tour de Sol.

"Even if the sun were to shine throughout the race," Muntwyler says, "the solar cells on the car roof would not generate more than about 10 per cent of the energy needed to power the car."

The remainder comes from a built-in battery that is recharged as the car stands in the sun. Cars have to be stationary and recharging for about 10 hours to store enough power to travel about 100km.

In ordinary traffic that wouldn't do. Cars are usually parked either in the shade or in underground garages. So many fans are busy planning solar filling stations of their own.

They fix their solar panels somewhere near home where they can bask in the sunlight to recharge the batteries.

Batteries remain the toughest technical problem facing designers and manufacturers. It is a vicious circle, with lightweight batteries not powerful enough and powerful batteries too heavy.

A fully-charged lightweight battery will only take the car 50km or so, but more powerful batteries are heavier, taking more energy to move.

Heavyweights are neither faster nor can they cover greater distances. The sodium sulphur battery devised mainly by Brown, Boveri & Cie, the engineering company, may be the breakthrough.

This battery, when fully laden, can cover 250km, accelerate to 50km from a standing start in seven seconds and reach a top speed of 130kph.

These are performance statistics that compare well with those of conventional compact cars, but even though the new battery is much more powerful — and cheaper to mass produce — it still weighs about 265kg, or 583lb.

Against this practical background the ideal requirements envisaged by Zürich solarmobile expert Ruedi Kriesi amount to squaring the circle.

"As battery expenditure weighs heavily on running costs yet the widest feasible radius is essential, the vehicle must be light in weight and aerodynamic in design so as to run on as little power as possible."

Unlike many other experts who have high hopes of battery-powered conventional cars, he is convinced from the outset that the vehicle of the future for short distances will be midway between a bicycle and a motor-car.

Most headway in this direction has been made by a group sponsored by Migros, the Swiss consumer retailers, and Autophon, the telecom company.

... batteries are becoming both lighter and more powerful

Battery-powered cars are much simpler and quieter and cleaner than conventional internal-combustion-powered cars. But so far no one has been able to produce a battery powerful enough to drive heavier vehicles fast enough and without involving cumbersome recharging.

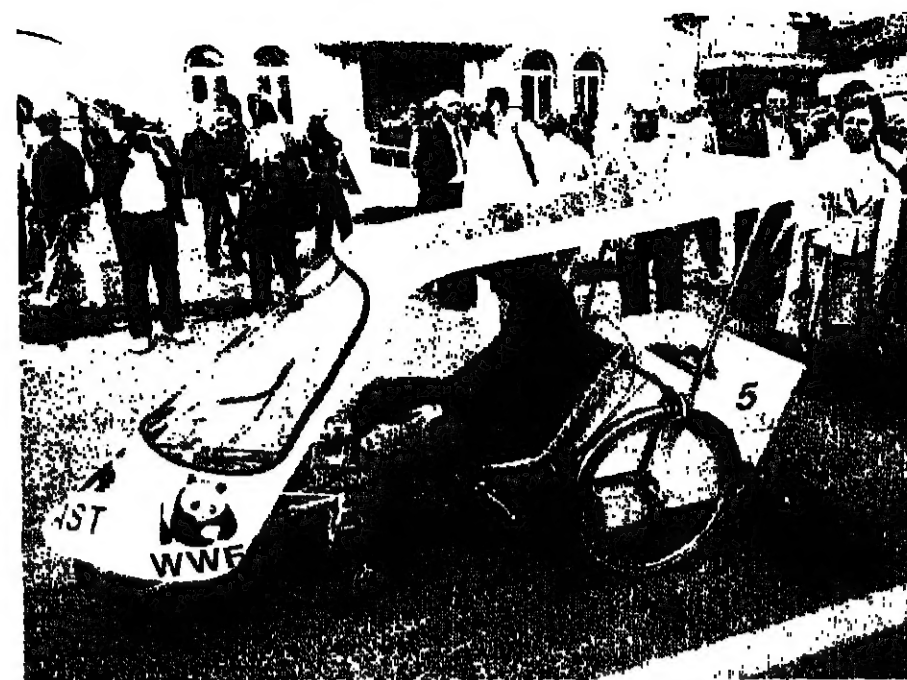
But researchers are beginning to get results. An aluminium air-cell battery is one. It involves electrodes immersed in an electrolyte and the use of a catalyst to extract electrical energy from aluminium. This battery does not need to be recharged. But, as this article in the *Süddeutsche Zeitung* explains, there is still an awful lot of scepticism about battery cars.

Battery-powered cars seem unlikely to compete with conventional motor-cars no matter how hard work is invested in research and development. Combustion-engined cars are cheaper to run.

Yet Dietrich Naunin of Berlin Technical University feels they stand a fairly promising chance of holding their own in special sectors, proving both economic and environmentally desirable in, say, health resorts.

Professor Naunin was recently elected president of the German Electric Road Transport Society (DGES). His optimism is not shared by Professor Rothengatter of the German Institute for Economic Research (DIW), Berlin.

He reckons market demand would total roughly 630,000 if battery-powered cars sold at DM16,000 in the Federal



The shape of things to come? Or of something else?

(Photo: Kessler)

Their prototype is extremely light in weight, seats two, has a range of 150km and reaches a top speed of 130kph.

Its energy consumption per 100km corresponds to 0.3 litres of conventional motor fuel.

Providing a more powerful, lightweight battery is available at a reasonable price, the Swiss solarmobile could sell for between DM8,000 and DM10,000.

The Swiss prototype meets virtually all the requirements specified by Berlin Technical University engineer Andreas Müller as essential if solarmobiles are to stand any chance of becoming a serious mode of transport in Germany.

"If a solarmobile can be built to sell at less than DM10,000, to seat two people, plus 50kg of luggage, and to comply with road traffic regulations, there

could be a market for several million vehicles."

It will be some years before this is likely to happen. Manufacturers are still reluctant to invest. Carmakers are waiting for the batteries. Battery manufacturers are waiting for carmakers to give them the go-ahead.

Both can only earn profits from mass production. Jumping the gun could cost millions. That is why Muntwyler is banking on publicity — car shows, races and the like.

Competition encourages inventors to design increasingly powerful models; they alone can hope to make solar power competitive as a means of propulsion.

Wolfgang Kessler (Deutsches Allgemeines Sonntagsblatt, Hamburg, 3 July 1987)

Republic, as against 243,000 at DM20,000.

Lending carmakers are unimpressed by either figure. They have no hopes of making a profit on less than 50,000 to 100,000 cars a year at prices over DM20,000.

Development of conventional cars makes the outlook for battery-powered vehicles even gloomier. New cars use less fuel, cause less pollution and cost less to run — so much so that they hold the edge even in limited market sectors.

They will continue to do so even if the sodium-sulphur high-energy battery is marketed by 1990, as stated by BBC's Dr Birnbreier. This battery will boost

the range of a four-seater car used in city traffic from 50km to 200km, with a top cruising speed of 120kph (75mph) as against 90kph (60mph).

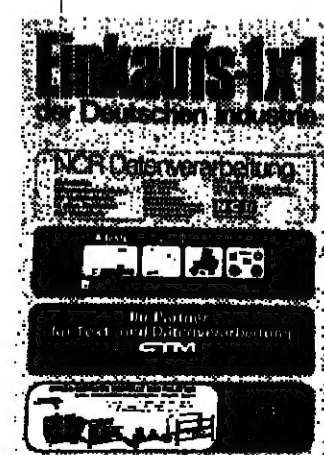
But battery-powered cars will still be the losers in economic terms and, as Herr Kiehn of the battery section of the Electrical Engineering Association put it, people just aren't prepared to take short-range battery-powered cars seriously.

It remained to be seen, he said, whether the sodium-sulphur battery will result in a breakthrough to mass production of battery-powered vehicles.

Professor Rothengatter disagreed. He was sure there would be no market for battery-powered cars by the turn of the century — unless one was politically created.

(Süddeutsche Zeitung, Munich, 3 July 1987)

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■ THE ARTS

The new Sally is Bowling them over in the aisles

Hamburger Abendblatt

Ute, you're wonderful!" said Liza Minnelli at Ute Lemp's Paris premiere of *Cabaret*. "This German girl is a dream," said an appreciative French President François Mitterrand.

Actress, dancer and singer Ute Lemp, from Münster in Westphalia, is the discovery of the year in the French capital, where she has won the Molière, France's foremost stage award.

Thanking the audience at the award ceremony in her best French, she replied: "My discovery of the year has been Paris." That earned her a standing ovation from a full house of 2,000 people.

Since mid-February she has starred nightly at the Mogador Theatre in Jérôme Savary's smash hit production of the musical.

In the record-breaking film version of *Cabaret* Liza Minnelli starred as dancer Sally Bowles at the Berlin Kit Kat Club in the early 1930s, as recalled by Christopher Isherwood in his novel *Good-bye to Berlin*.

Ute Lemp as Sally Bowles is now playing to full houses in Paris, where the musical's run has been extended from the end of May to the end of February next year. Not since Romy Schneider has a German actress so delighted the French.

She is a banker's daughter, blonde, 1.73m (5ft 8in) and a bantamweight 53kg (116lb).

She was completely unknown when she was hired by Jérôme Savary, the founder of the renowned Grand Magic Circus, to play Sally Bowles. It was, she says, a tremendous challenge.

"Liza Minnelli totally took over the role and made Sally Bowles immortal on the screen. So as I am nothing like Liza Minnelli I was able to work out something entirely different, an approach of my own, for the part."

Ute Lemp has taken Paris by storm. The critics outdid each other in paeans of praise. "A new star is born. Ute is a dream. A bundle of energy, charm and talent. Jérôme Savary's new bombshell is the real Big Bang."

"When Ute sings, her voice turns your head. When she dances her seemingly endless legs simply bowl you over. That is enough to lay Paris at her feet," the critics wrote.

"Willkommen, bienvenue, welcome to *Cabaret*" is a song Ute heard at least 1,000 times on her parents' record-player as a 13-year-old back home in Münster.

"I sang to it, dancing and miming Sally. I felt an affinity to her. How I would have liked to get out and about like she did," she recalls. Her teenage dream has now been fulfilled.

In the quest for renown and reputation she was active even as a youngster. She grew up in a middle-class home with her father, mother and a younger brother who is now studying architecture at Münster University.

"I was made to take piano lessons at the age of five," she says. She attended ballet classes and was seen on the stage of the city's Stadttheater as a schoolgirl.

At 15 she performed with a rock

band. "Child, you're going to scream your voice to ruins," her mother (who would have liked to be a singer herself) told her.

She insisted on Ute taking proper singing lessons. "I spent my holidays at the Summer Dance Academy in Cologne rather than on the Côte d'Azur."

After passing her university entrance exam with flying colours she decided that life at home, a good Catholic home, was too restricted. She moved out and into a shared flat, earning her living from gigs with a rock band.

Eventually she left for Vienna and an audition for the Max Reinhardt Academy of Drama. "I really spent 18 months there in an attic learning parts," she proudly says.

Then Andrew Lloyd Webber's *Cats* came to Vienna. Ute and 600 others applied for a part. She danced the way we know it from *Chorus Line* and was given the part of Bombalurina.

She stayed with the musical for a year on a salary of DM2,000 a month. "After 300 shows, sometimes twice a day, I was worn out. I used to cry on stage in sheer exhaustion."

Yet she now knows her work alongside American professionals was well worthwhile.

Ute Lemp, admired by German viewers as Peggy Brinkley in the TV serial *Das Erbe der Guldenburgs*, conveys an impression of amazing self-assurance. She is just 24 but looks older.

"I'm a loner," she says. "From an early age I have made all my own decisions. That takes courage. It makes a mature woman of you."

From Vienna she went to Berlin, where she played in the musical *Peter Pan* at the Theater des Westens and starred alongside Nicole Heesters and Ingrid Caven in the Kurt Weill Show.

She then wanted to work in straight drama. "You must never succumb to routine." So she applied in spring 1985 to Ivan Nagel, general manager of the Stuttgart Staatstheater, for a job.

He referred her to Jérôme Savary, who hired her on the spot for his *Bye Bye Show Biz*. Tired of musicals though she was after a year of *Cats*, she says:

"Jérôme infected me with the musical



Baton charge... Bernstein (right) embraces Barschel in award ceremony. (Photo: dpa)

virus." And she didn't hesitate for a moment when Savary took her with him to Lyon to rehearse *Cabaret*.

A tour through the French provinces was followed by 80 shows in Düsseldorf, where she was hailed by German critics, but she did not really come into her own until the show moved to Paris.

She lives in a small two-room apartment below Montmartre and says: "I'd love to see all the Paris museums myself at last, but I'm still howled over by success."

New engagements are lined up, including her first major one-woman show at the Sporting Club in Monaco on 18 August with a programme of musical songs.

An LP is to go on sale this autumn and in September she will star in two concerts in New York.

"I am then to star in a film alongside Klaus Maria Brandauer. I haven't signed the contract yet. Things are moving too fast. I hardly know where I am."

Yet she enjoys the publicity. "But I can rule out any idea of a private life. I should like to have children at some stage. But not just yet."

"I haven't the time and my career must come first. You get nowhere without making some sacrifice or other. Show business is a labour of Sisyphus."

Constance Knitter/SAD
(Hamburger Abendblatt, 4 July 1987)

One fine day in the nightlife of Leonard Bernstein

Leonard Bernstein has been awarded the Grand Cross of the Federal Order of Merit. It was presented by Schleswig-Holstein's Prime Minister, Uwe Barschel, who had to get out of a hospital bed for the occasion. Herr Barschel has been in hospital since being involved in a light-aircraft crash several weeks ago. Mr Bernstein was in Lübeck for his third concert of the Schleswig-Holstein music festival season. Inga Griese of *Die Welt* gives her impression of a day in the life of the 69-year-old maestro on tour in Germany.

Leonard Bernstein curses under his breath as he trips over a cable and takes his seat in the chair behind the orchestra. It is Friday evening in the concert hall of the Deutsches Haus in Flensburg.

An audience of 1,600 looks on as the Schleswig-Holstein music festival orchestra tunes up for its first concert after rehearsals with the US maestro.

The first notes of Sibelius' Fifth Symphony are heard. Carlos Spierer is conducting from the rostrum, Bernstein from the side of the stage. With each stroke of the baton Mr Bernstein seems to be trying to pass on his musical power to the conductor. When he stops after two movements Bernstein's deep, tarry voice is heard saying: "Ja, very good."

After the interval the maestro himself mounts the rostrum to delve deep into



You ask me what makes the world go round?... Ute Lemp as Sally Bowles. (Photo: Telebank)

the rites of spring in Stravinsky's ballet score, *Le Sacre du printemps*, a stirring performance that electrifies the audience.

"Lennie" bathes in the applause and shares it with his festival orchestra.

It is an unusual gesture for a conductor to pick flowers from the bouquet of roses and hand them to members of the orchestra.

The applause continues, Bernstein embraces his pupils. He is clearly exhausted and beckons the first violin. That is the signal for the orchestra to call it a day too.

Relieved and in a genial mood, the inevitable cigarette in the corner of his mouth, Mr Bernstein receives visitors in his dressing room, wearing a bathrobe befitting a champion.

From Flensburg he is off to Glücksburg, where he has a dinner date with festival sponsor Rolf Schaaf.

On Saturday the jubilation is even more roof-raising as the orchestra plays the same programme to an audience of 5,000 in the Holstenhalle in Neumünster.

They include former Federal Chancellor Helmut Schmidt and his wife, who chat with the maestro in his flower-packed dressing room as Lennie's personal assistant, Craig, looks on.

After the concert the VIPs head for separate receptions while Mr Bernstein in his dressing room enthuses about the strength of spring and of Stravinsky's score. "It's disco for me," he says. Towards midnight he leaves for Emkendorf and his next festival.

An audience of roughly 2,000 is in the enormous old barn of the manor estate for a musical miscellany including Liszt, Ringelstutz and cabaret.

The maestro arrives almost unnoticed via a side door. "I'm dying of hunger," he says — and is disappointed. "Sit and listen to more music?" he asks.

He first heads for the hippodrome

Continued on page 11

■ EXHIBITIONS

Nine thousand years of Cyprian culture plus a goddess

Hannoversche Allgemeine

The Übersee-Museum in Bremen has mounted an exhibition called *Aphrodite's sisters and Christian Cyprus: Nine thousand years of Cyprian culture*.

This is the first time a museum has put on a historical synopsis dealing with the extraordinary role played by Cyprus in the formation of European culture.

Museum assistant Alexandros Pistofidis said, "the museum decided to make the veneration of the goddess Aphrodite the theme."

There are more than 400 priceless exhibits on show, most on loan from the Cyprus museum in Nicosia.

Many other museums have also contributed: the Medelhavsmuseet, in Stockholm; the Baden state museum; the Pergamon museum in East Berlin; and the Louvre, in Paris.

Bremen was also able to acquire some free-field ceramics, which are only found in Cyprus. In about 600 BC, artists worked wonders on white undercoats of convex ceramic vases and even today these works strike the viewer with a modern vividness.

The exhibition is enriched by gold jewelry from a private collector from Amsterdam. Herbert Ganslmayr, the director of the Übersee-Museum, was enthusiastic. The jewelry, he said, "is unique in Europe and we are delighted to have it."

One may well ask why so much attention is being paid to Aphrodite. The answer is that, according to legend, the goddess originates from Cyprus. And deities like her have been worshipped throughout history as the embodiment of fertility, of the origin of life and culture.

The Greek poet Hesiod, who was born in Askra about 700 B.C., passed on the myth of Aphrodite to us in his poem *Theogony*.

He described how the goddess was born on the foam of the sea, issuing from a dismembered limb of her father, Uranus, who was floating in the sea. Cypriots built a shrine to her in the city of Paphos, not far from the bay where legend has it that she came into being. The natives held annual orgies in her honour. She was after all the protector of prostitution just as much as she was of marriage.

The natives of Paphos had in fact been worshipping a goddess of fertility as early as 3,000 BC. It was during this period that small beautiful cruciform idols were made of women with long necks, outstretched arms, bent knees and the usual feminine curves.

The themes of the earth's fertility and the reproductive capacity of women, even in this day and age, taken together still exercise a mystical fascination.

The Greeks, who arrived in Cyprus

Continued from page 10

and a snack of meatballs and fried egg before taking his seat alongside Helmut Schmidt and pianist Justus Frantz, the festival organiser.

It is late but the atmosphere is good. The brass band from San Francisco is generously applauded for its Bolero and Flight of the Bumble Bee. Barbara Hill Moore sings songs by Bernstein, quietly accompanied by the composer.

The festival began on a grey and overcast note, but when it is over, at 3 a.m., the audience head for their cars in a bright and cheerful mood.

(Die Welt, Bonn, 13 July 1987)

about 1,400 BC, incorporated the myths of the native religion into their own. And made the cult of Aphrodite out of it.

With the coming of Christianity this was transformed into mariolatry. Up to the last century one could still visit a church in Paphos called the "Virgin Aphrodite".

The origins of Cypriot culture can be traced back to as early as the stone age. Archaeologists have excavated a 9,000-year-old village called Khirókittia near the southern coast. They established that 600 people lived there in round stone huts.

Nobody knows where they came from. But they already had knowledge of farming and cattle-breeding. Their utensils were rough. They fashioned their tools and cups patiently out of stone.

Ornamented pendants and finely worked neck-chains made of shells bear evidence of artistic taste. Pottery from the Cypriot bronze age was later found in Egyptian graves. They found composite vessels in the form of poppy seeds which suggests that there was a flourishing drug trade even then. Jewelry was often buried with the dead under their dwellings.

Later in its history foreign powers invaded the island because of its geographical position between East and West. This was to determine its historical destiny. The island was to blossom into a productive cross-fertilisation of cultures.

Bremen is presenting cultural history as a reconstruction of the social and economic ambients and not as a display of prize objects. They have reproduced the excavation field. And have even made a five-metre high copy of a bull-god.

Archaeologists had a stroke of luck while digging. Priests who controlled worship separated surplus offerings to gods and stored them in particular pits. One of these pits was found intact with 2000 imitations of people, horsemen, wagons and bulls.

Later on the island became important for the mining of raw materials. Its fame as a producer of copper gave the island its name. In the first Greek settlers arrived in Cyprus about 1,400 BC as a result of natural catastrophes in the Aegean islands. They founded powerful city-states like Salamis, which at one time had a population of 100,000.

But they could not hold on to power long enough to ensure any deep-rooted hellenism could take place.

In the end the Greeks had to make way for the Persians who in turn made way for the Egyptians. The island also failed to evolve a national identity which would have helped it combat foreign domination. It was only later through the medium of art that the island's different peoples formed a common Cypriot identity.

An example of this new Cypriot identity is the large-plastic. This was a new fashion of sculpture which started about 700 BC. The Bremen museum has a gallery of classical heads carved in this style.

As charming and seductive as the women of this age were, divine beings

still remained the artistic ideal. The Romans, who ruled Cyprus for 400 years, preferred to portray more contemporary women. They displayed a profane lust for the beautiful and the erotic in their art. They decorated the floors of their villas with skillfully put together mosaics.

One can see a copy of Leda erotically showing us her back in the museums colonnaded court of a Roman villa.

The most valuable treasures are six Byzantine icons of which the oldest is a portrait of John the Baptist from 12,00 AD. Among the works of the sculptors Agiru and the painters Diamantis and Skotinos we meet Aphrodite once again as a symbol of humanity.

The icons exude a charm through their plastic contours, transparent colours and the naturalness of their expressions.

Christoph Sodenmann
(Hannoversche Allgemeine, 8 July 1987)

The Etruscans come north with their treasures

When Etruscan treasures were shown for the first time in Germany, in Cologne 30 years ago, they created a sensation. This relatively unknown culture became popular overnight.

Now it's Hamburg's turn to show the Etruscan treasures from the archaeological museum in Florence. The amount to see is simply overwhelming. There are 800 works of art of the highest quality.

In much the same way as Tutankhamen did, this exhibition with its charming 3,000-year-old objects transports one back along a merry route to the ancient past.

Where the Etruscans come from is still in dispute. In 800 BC, they conquered the area between the river Po and Rome and founded a chain of city-states whose boundary walls are still a source of pride today for north Italians. Eight different cities have sent works of



Roman mosaic from Cyprus. Circa 2nd C BC. (Photo: Catalogue)

art from their necropolises, which were nearly as large as the land allocated to the living — the Etruscans were a rich people and they wanted their dead to be just as well off.

The objects are so aesthetically beautiful that one cannot be blamed for coveting them. It will be a long time before the exhibition makes the rounds to Hamburg again.

It consists mostly of gold jewelry like delicately engraved armbrands, hairneedles, earrings and golden buttons with filigree designs like miniature suns.

The exhibition is concentrating on 150 years of Etruscan art from late eighth and seventh centuries BC.

This period was the genesis of an upper-class, which together with the metal deposits of the island of Elba grew and developed trading links with the Orient.

It's exciting to make out the Etruscan faces at this exhibition. The high elevated portraits of the Etruscans is best illustrated by a man's head made of ivory about the size of a cherry.

The bearded man with almond shaped eyes, aquiline mouth and the large flat nose was found in Marsiliana.

Then there is a life-sized sculpture from Vetulonia, an impressive piece which shows a striking face framed by two thick plaits of hair.

Around her neck is a chain of half moons and around her waist a belt with a design of two-winged cats.

An ivory desk is a particularly precious piece. The alphabet has been inscribed, right to left, along its upper edges. The aim was to act as a memory aid to the writer. Evidence from the Marsiliana cemetery shows that the art of writing was highly esteemed.

The military nature of the Etruscans is also shown. Among the exhibits are chariots, helmets, leg protectors, breast plates and horse equipment. A warrior's weapons were placed with him in the grave.

The Italian tourist board can take credit for the exhibition coming about at all. It has been largely financed by them and they produced the opulent catalogue.

Erika Brenken
(Hannoversche Allgemeine, 16 July 1987)



This life-size limestone sculpture from Vetulonia is 2,700 years old. (Photo: Catalogue)

■ THE ENVIRONMENT

Balloon mission will probe mystery of holes in stratosphere's ozone layer

Staff at the Max Planck Nuclear Physics Institute in Heidelberg are grappling with the problem of the missing ozone in the stratosphere.

They have filled a lightweight metal tube about the size of a children's merry-go-round with electronic equipment.

It has been shipped to France where it will be launched by balloon into the stratosphere to measure trace gases for CNES, the space research establishment.

The French balloon mission is an experiment. Its payload includes a measuring device lately developed by the Heidelberg physicists in a bid to solve the mystery of the missing ozone.

A hole in the ozone layer over the Antarctic (and now over the Arctic too) is growing larger by the year. The Heidelberg physicists' current reactor looks much like a twin-engine rocket.

At altitudes of between 10 and 30 kilometres it ingests aerosol droplets from the air and vaporizes them.

The steam is then analysed in a chemical ionisation mass spectrometer. The French mission is designed merely to find out whether the equipment works. Full-scale operations are scheduled for next winter.

In February 1988 an international team of European scientists will fly balloons over the North Pole. Their Arctic stratosphere ozone measuring experiment will go by the name of Cheops II.

Cheops I peaked last February when over 50 scientists joined forces at short notice.

They were from the Heidelberg Max Planck Institute, the Jülich nuclear research establishment, the Free University of Berlin, the University of Stockholm, the German Aerospace Research Establishment (DFVLR), the CNES and Esa, the European Space Agency.

Three balloons were launched from the Esrange Esa missile range in Lapland, 100km north of Kiruna in northern Sweden.

A research missile was also launched and an aircraft full of measuring equipment flew seven missions.

The experiment confirmed a theory arrived at by two German scientists early this year to account for the missing ozone.

They are Frank Arnold of Heidelberg, a cosmic physicist who normally deals with distant planets, and Paul J. Crutzen, a Mainz chemistry professor.

They underscored the old surmise that halogenised hydrocarbons, including fluorochlorohydrocarbons, are not only fine spray gases, coolants and solvents but also most effective ozone guzzlers.

The two German scientists' complex theory is based on the assumption that in the Arctic (and Antarctic) winter, when temperatures in the stratosphere fall below -70° C, nitric acid gas forms condensation like steam on a cold kitchen window-pane.

Nitric acid gas is an important natural feature of the upper atmosphere. If it is missing the chemical balance of the air is upset.

Minute quantities of halogenised hydrocarbons may then act as a catalyst and break down substantial amounts of ozone.

The result is that the Earth's natural atmospheric "sunglasses" no longer work and ultraviolet radiation penetrates the biosphere.

It heightens the risk of skin cancer,

STUTTGARTER ZEITUNG

stunts plant and microorganism growth and contributes toward the "hothouse effect" that threatens to change the climate.

Cheops I underpinned this theory, but an international gathering of ozone specialists failed this spring to agree on an explanation for the phenomenon.

While American scientists take a further look, with a heavy technical outlay, at the ozone hole over the South Pole next winter, European Cheops II research scientists will try to solve the problem with experiments over the more readily accessible North Pole.

The Heidelberg experiment will be the first of its kind capable of both measuring the reduction in nitric acid gas at low temperatures and checking whether it really condenses into aerosol droplets.

Some scientists disagree with the Heidelberg and Mainz theory, saying the halogenised hydrocarbons are not to blame.

Their explanation is that warm, low-

ozone air layers rise in the polar spring, simply displacing the ozone.

What this fails to explain is why the ozone hole has grown steadily larger: slowly since 1960 and ever faster since 1980.

Early this year Professor Crutzen said the ozone layer between 10 and 20km over the South Pole had almost entirely vanished — over an area the size of the United States.

The scientific dispute might be of no further concern were it not for the disastrous political consequences.

In the debate on an international agreement to protect the ozone layer a number of governments, urged on by leading manufacturers of halogenised hydrocarbons, have stressed the point that the case against spraycan gas is far from conclusive.

Conclusive or not, the United States favours freezing emission at 1986 levels in the short term and reducing it by up to 95 per cent in the longer term.

The European Community in contrast has slammed on the brakes. Its member-governments have been unable even to agree on the joint wording of a protocol to enable the 1985 Vienna agreement on protection of the ozone layer to come into force.

Britain, France and Italy are the main slowcoaches. German manufacturers, of which Hoechst and Kali-Chemie are the largest, said in May they are prepared to disperse voluntarily with halogenised hydrocarbons as spraycan gas by 1990.

Exceptions are to be allowed in individual instances where a satisfactory alternative is not yet available.

An April 1987 European Community draft proposes freezing halogenised hydrocarbon production at the 1986 level within two years and reducing domestic output and imports by 20 per cent within six years.

This is even though scientists are agreed that not even a total ban on halogenised hydrocarbon emission would end the effect on the ozone layer; spraycan gas rises very slowly to stratospheric altitudes.

What is sprayed or condensed today may not start to wreak havoc for decades.

The European Community countries plan to sign a final version of the protocol in September. A September conference in Montreal will also deal with protection of the ozone layer.

Frank Arnold, like most fellow-physicists, feels most unhappy with the political debate.

He wonders what degree of certainty is necessary before action is taken. "My personal feeling is that we should do something," he says. "I wouldn't like us to have to admit afterwards to having made a tragic mistake."

Rainer Kliting
(Stuttgarter Zeitung, 3 July 1987)

Rubbish, says consumer group about spraycan gas defence

Fifty two out of 53 hairspray and deodorant cans in a test were found to use fluorochlorohydrocarbon spray gas, according to the April issue of *Oko-test* magazine.

The evidence that fluorine spray gases are punching holes in the ozone layer high in the earth's atmosphere is not conclusive, but the report galvanised the Chemical Industry Association into a rear-guard action.

It wrote to Bonn Environment Minister Klaus Töpfer saying that between 1976 and last year the quantity of this spray gas used had been reduced from 53,000 to 26,000 tonnes a year in Germany.

By 1990 between 90 and 95 per cent of the spray gas used in 1976 would be replaced by gases that were not under suspicion of being ozone-killers.

The exception would be medicinal and technical aerosols, for which there was no alternative.

The Düsseldorf head office of the North Rhine-Westphalian consumers' advice bureaux says the association's claims were eyewash.

It was a scandal that the chemical industry still used fluorine-based spray gas in any everyday products at all.

This response must be seen against the background of reports published in the United States as long ago as in 1974 saying this category of spray gas was a serious environmental hazard and threat to the ozone layer.

Ozone is a combination of three oxygen atoms that shields the atmosphere from part of the Sun's carcinogenic ultra-violet B radiation.

If the layer of ozone molecules, amounting an infinitesimal 0.00006 per cent of the atmosphere, were to be di-

luted for good the result, or so many scientists say, would be a total upset in the ecological balance.

Light-sensitive algae would die. Water fauna would forfeit their basic diet. The food chain would lose a vital link.

Horried by this drastic prospect, the United States and Canada banned the manufacture of this spray gas in autumn 1978.

British and French manufacturers did nothing, as usual, while German industry responded to growing public pressure by deciding to gradually phase out the killer gas.

They did so even though "scientific research has failed to establish any clear connection between damage to the ozone layer and fluorine-based spray gas," as Hans Jürgen Danzmann of the Cosmetics and Detergent Industry Association puts it.

Industry has agreed to disperse with the gas in the long term out of a sense of responsibility toward man and nature — even though suspicion is not proof.

An immediate ban as demanded by environmentalists and consumer advice bureaux is out of the question, manufacturers say. They cannot afford it and the change-over to alternative spray gases cannot be carried out overnight.

Yet interestingly enough Reinelt, a small firm in Friedberg, Hesse, switched to an ozone-friendly mixture of propane and butane spray gas 10 years ago for its cosmetics and household products.

Manager Wolfgang Best says the change-over was made because fluorine-based spray gas was simply too expensive.

Even if it were banned from hair spray and deodorant, car paint cans and stove cleaner, the fluorochlorohydrocarbon problem would still exist.

Neither in America nor in Germany is any mention made of other products in which it is used. Half the quantity that finds its way into the atmosphere comes from latex foam, air conditioning and freezer coolant and solvents.

That is why, according to the Federal Environmental Protection Agency, Berlin, output in the European Community increased from over 320,000 tonnes in 1984 by a further four per cent in 1985.

There may be alternatives for use as spray gas but not, or so the Environment Ministry says, for freezers and air conditioning units.

"If fluorochlorohydrocarbons were no longer available," says the Ministry's Claudia Conrad, "we could scrap refrigerators entirely."

If this is true, and there is no acceptable alternative to fluorine-based hydrocarbons for use in coolants and medicinal and technical sprays, then international agreement must at least be reached as soon as possible on regulations governing the remaining 85 per cent.

National interests naturally clash. Assuming a UN Environment Programme conference achieves results in October, the outcome seems unlikely to amount to more than world output being halved by the turn of the century.

Yet the Max Planck Chemistry Institute, Mainz, says that even if an immediate ban were imposed the atmosphere would take 80 years to revert to the state it was in in the 1920s before fluorine-based spray gases were first used.

Conservationists are likely to find a legal survey commissioned by the chemical and cosmetics industry associations in June 1986 even more problematic than the use of spray gas.

Fritz Ossendrübel, the Bonn law professor and author of the report, argues that official recommendations on environmentally A1 goods are in breach of the fundamental right of free enterprise.

Continued on page 15

■ MEDICINE

Public fear of radioactivity 'inhibiting nuclear diagnosis and research'

Frankfurter Rundschau

Fear of anything to do with radiation and radioactive contamination was so widespread that public opinion was opposed to nuclear medicine, Rosalyn S. Yalow told Nobel laureates at this year's Lindau conference.

Professor Yalow, an American, said this was bad. Radioactivity and radiation were important.

It would be "tragic if panic-stricken fear of radiation were to lead to us no longer being able to benefit from the advantages."

Sensibly used, nuclear medicine could prove most useful in both diagnosis and treatment. It could also benefit medical research.

She recalled radioimmune assay (RIA), a technique she had developed. It identified the smallest traces of biologically interesting substances, such as hormones, enzymes and proteins, in a single drop of blood.

Radioactive markers were used in what, she said, was a fairly fast and simple test. It was based on processes that played a part in the rejection of transplants and the immune response to infections.

She had harnessed these processes, used to trace, identify and destroy substances alien to the body, to quantify interesting biological substances in a test-tube.

The technique is used in thousands of laboratories all over the world to identify hundreds of substances in the blood and in other body fluids.

Numerous complaints can now be diagnosed long before their actual outbreak. Early treatment is of inestimable benefit in treating numerous ailments.

RIA has long been a standard technique in clinical medicine. It is used to identify viruses in the blood by which a blood donor can transmit jaundice or hepatitis to the recipient.

The Aids virus can be identified by means of the RIA test, which is also widely used in the United States in medical checks on new-born babies.

Some thyroid malfunctions can be spotted so early that treatment can begin in time. If they aren't identified within three months of birth the consequences — retarded mental development — are irreversible.

This thyroid complaint occurs in one birth in 8,000 in the United States.

The list of illnesses Professor Yalow mentioned in Lindau was much longer. They consisted less of complaints that can be safely and reliably identified by means of conservative diagnostic procedures than of rare diseases medicine has in the past been unable to treat.

Given the growing fear of radiation

Continued from page 8

for some time. This in effect means that direct taxation on incomes would sink. Indirect taxes such as VAT would rise. With the result that, as supporters of the system say, citizens have more scope to influence their own taxation. Consumers would pay more than non-consumers. Such a system would have to have different VAT for different goods. Daily necessities would have less and luxury goods would have more. But it is a long way to this goal.

Jürgen Tüchel
(Nürnberger Nachrichten,
15 July 1987)

the use of radioactive marker substances in test-tube analysis had come into disrepute in much the same way as clinical diagnosis and therapy using radiation and radioactive isotopes had come under a cloud.

Fellow-American Allan M. Cormack dealt at Lindau with a radiation treatment problem that was extremely interesting from a clinical viewpoint.

Professor Cormack shared the 1979 Nobel medicine prize with Britain's Godfrey Newbold Hounsfield for developing computer tomography.

This technique, an improvement on the original X-ray, has — like radioimmune assay — been quick to gain medical acceptance.

Computer tomography enables the doctor to look inside the patient's body and see for himself any pathological changes.

The pictures it produces are invaluable, supplying an abundance of information not otherwise available.

The technique uses X-rays, and although radiation exposure has been greatly reduced as technology has progressed, the risk cannot entirely be eliminated.

In recent years Professor Cormack has repeatedly concentrated on reducing the radiation risk. At Lindau he gave an interesting outline of his work, which is by no means limited to improving diagnostic equipment.

Radiation plays a key role in cancer therapy. It affects not only the diseased cells but also healthy tissue doctors are keen to preserve at all cost.

Ionised radiation has long been used to treat cancer because it kills fast-reproducing cells faster than healthy ones.

Radiation therapy mainly used heavy ions, but as they could only be generated at great expense in particle accelerators 95 per cent of patients would continue to be given X-ray treatment in the next 20 years, Professor Cormack said.

X-ray treatment still posed problems even though it was a long-established technique.

Rotation therapy, the most wide-

spread treatment, regards the human body as an idealised cylindrical or spherical object.

Twin rays are played round the patient's body in opposite directions, thereby ensuring that the malignant tumour, assumed to be spherical in shape, is subjected to a constant dose of radiation, exposing healthy tissue to a lower dosage.

Patients are not, of course, exactly cylindrical or spherical in shape. Tumours, for that matter, are as a rule neither spherical nor exactly in the middle of the cylinder or sphere.

So what radiation dose is the patient best given? Ought it to be as low as possible for the sake of the healthy tissue?

Or can a healthy organ be half-sacrificed to ensure that another organ remains operational? Ought, for that matter, the radiation dose to be identical for both organs?

These and many other issues came under scrutiny by Nobel laureates in Professor Cormack's working party.

Even if, as a result of their work, the radiation hazard might be reduced, medicine would still not be able to dispense entirely with radiation therapy.

For thousands of patients' sake it would be irresponsible to drastically reduce the medical use of radioactivity on account of panic-stricken anxiety.

The cause of this fear of radiation was, Professor Yalow said, inaccurate information about the long-term consequences of Hiroshima and Nagasaki.

Scientists who had dealt with the nuclear fallout had discovered that only about 250 of the 82,000 survivors, each of whom had been exposed to an average 25 rems, or units of radiation dosage, had died of cancer due to the radiation.

This figure was less than six per cent of the 4,500 cancer deaths by 1978 due to other causes.

As the number of people evacuated from the Chernobyl area and their radiation exposure were similar to Hiroshima and Nagasaki, the Japanese statistics are probably the highest conceivable figures for radiation-induced cancer.

As the Soviet evacuees were exposed to their radiation dosage over a matter of hours (rather than in a single moment) their higher incidence of cancer over the next 35 years may be expected to be less than six per cent of cancer deaths due to natural causes.

Professor Yalow left no doubt that changes in personal habits, such as smoking, would influence cancer statistics much more than Chernobyl.

Konrad Müller-Christiansen
(Frankfurter Rundschau, 4 July 1987)

25 per cent chance of another Chernobyl, warns doctor

There is a one-in-four chance of a nuclear power station catastrophe of Chernobyl dimensions happening somewhere in the next decade, says US surgeon Robert Gale, who treated Chernobyl victims in the Soviet Union last year.

In the United States, he says — and others agree — there is a 50-per-cent chance of a disaster.

Speaking to pressmen in Bonn, Dr Gale, a specialist in bone marrow transplants, said one of the most important conclusions to be reached from Chernobyl was that reactor safety must be improved sufficiently to make human intervention unnecessary in the event of an accident.

Atomic energy as such, he said, was neither good nor bad. It could be both harmful and beneficial.

It depended first and foremost on how civilisation handled it. Dr Gale has been in the Soviet Union on several occasions since treating Chernobyl victims last year.

He was in the Federal Republic of Germany at the invitation of the German Nuclear Forum.

Modern medical methods had, he said, made it possible to keep the number of victims to a minimum.

Five hundred Soviet radiation victims had been hospitalised. Twenty-nine had died and 471 been released. Most, he said, were in good health.

During treatment human endurance had proved greater than had been imagined. But long-term effects were bound to occur — about 40 per cent in the Soviet Union and 60 per cent in Europe.

Dr Gale said cooperation between Soviet and US authorities had been excellent. It had resulted not only in immediate medical care but also in data compilation to serve as a basis for further calculations.

Statistics compiled included medical observation of 135,000 people evacuated from the Chernobyl area.

In the next 50 years an estimated 60,000 people all over the world would die of cancer as a result of the Soviet reactor meltdown, including up to 1,000 in the Federal Republic.

A further 5,000 would suffer serious genetic damage and up to 1,000 would suffer from health defects from birth as a result of Chernobyl.

These figures must not, Dr Gale said, be overrated; 175,000 people a year died of cancer in the Federal Republic already. What people must bear in mind, however, was that existing facts and figures must be multiplied by at least 1,000 to arrive at an estimate of the effects of even limited nuclear hostilities.

(Hannoversche Allgemeine, 27 June 1987)

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■ HORIZONS

Beyond the flames of the stake, witches are still riding at full throttle

Summer 1570: Elisabeth Schmidt from Altheim lay in chains. Witnesses say that on Walpurgis night, she put a jinx on the cattle in the field. (Walpurgis night is the eve of the first of May when witches rode on broomsticks and he-goats to meet the devil up in the Harz mountains).

The cows had run off from the cowhands during a thunder storm but she got the blame.

Church's scholars had declared that

Exhibition shows what customs are up against

The history of customs is also a history of smuggling. Wooden logs with sliding doors and toy animals: every trick in the book and quite a few not in it have been used.

The Cologne customs museum has about 1,500 exhibits, but, says the man in charge, Heinrich Ashauer, that shows just a fraction of what smugglers get up to.

But it is an impressive enough collection all the same. It demonstrates just how inventive smugglers can be. Alcohol and tobacco stored in a tree trunk and carried as firewood; double walls in suitcases and travel bags; storage space between shoe and sole; books and newspapers that contain no reading material: these are all classic methods.

But over the years, the methods have got more cunning and the tricks trickier. They are caught only by accident, says Ashauer. Drugs are carried in wigs, diamonds in furry toy animals, clothing saturated in cocaine and munitions baked in bread. Snusage is used as a hiding place for alcohol and a walking stick the handle of which can be quickly converted into a weapon.

Simple everyday items such as tin cans serve as vehicles for smuggling. In Holland, you can buy can specially made for the smuggler. He just pays his 15 guilders, stuffs his (or her) contraband in and seals it.

Ashauer says attitudes are sometimes of self-pity: "You aren't going to take away the child's doll, are you?" Customs officers are viewed as inhuman when they examine wheelchairs used by invalids.

Once, a declared item of value like a supposed antique was regarded as a brilliant hiding place for something else. But not any more.

The exhibition has 135 condoms used to smuggle drugs. Several were found on a Columbian. He had stuffed them full of cocaine and then swallowed them in a bid to get it into Germany in 1984. He was caught.

Two years before that, 10 kilos of marijuana were found in a surfboard. Hashish is regularly smuggled in worked into baskets and into carpet pile as tufts. Necklaces are made out of hashish covered with a plastic paint. Marijuana is brought in as joss sticks.

Sometimes mistakes are made; three Tunisians coming in wearing vests to which were sewn simple little parcels were held on suspicion. But all that each packet contained was a verse of the Koran.

dpa

(Bremer Nachrichten, 19 June 1987)

human doings connected with the devil were an extremely serious crime. In doing this, they gave a big boost to the belief in witches.

In 1487, precisely 500 years ago, a Dominican monk called Heinrich Institoris presented a systematic paper about witches, the notorious *Hexenhammer*.

The book was to help the witch-hunters, to eliminate any doubts people might have about the existence of witches, and to help preparation and carrying out of witchtrials.

A witch was any woman who renounced God and made a pact with the devil. A witch injured and destroyed people and animals. On the witches Sabbath, she met with the devil and his colleagues.

The judge in the hearing against Elisabeth Schmidt maintained that through her participation in Witches' Sabbath she knew the names of others involved and he tortured her on the rack to try and get her to say who they were.

Hexenhammer was riddled with a morbid hatred of women: "Woman is by nature bad, a person who is quick to doubt her faith and even quicker to deny it — the very basis for witchcraft."

The work mentioned the involvement of male activity only in passing. Men were above all threatened by the devil when they stood by a charged woman, be it as son, husband or even defence counsel. In such cases they were then exposed as sorcerers.

A Jesuit father called Friedrich von

Allgemeine Zeitung

Spee in 1631 set off a movement against witchhunts with a then anonymous "Warning paper over witch trials." In Paderborn, he was the father confessor to many alleged witches condemned to death. In his paper, he described what really happened at witch trials.

"The accused either confesses on the rack, in which case she is guilty; or she doesn't confess, in which case she is also guilty because to have withstood such terrible torture, she must have been in league with the devil. Therefore she had practised the so-called sorcery of silence and was shown to be a witch."

Spee told about a witch-trial judge who used his people to incite the peasants against witchcraft. He said he would go and burn out the "witch pest". He sent people out to go from house to house to collect money.

The hunts became ever-more profitable undertakings. The custom dating from the Inquisition that the property of a convicted witch went to the hunters caused the habit to flourish.

The trials were also a way in which personal grievances could be squared: often people would spread rumours about an enemy and then act as a prosecution witness.

But politics was also involved. For example, the Prince-Abbot of Fulda,

Balthasar von Dernbach, used the hunts as a means of finishing off the Protestants.

Witchhunting hit its zenith between 1590 and 1670. But even as late as 1749, they were still being burnt at the stake in Kempten. In Posen they were being burnt as late as 1793.

The main countries involved in witchhunting were Germany, France, the Netherlands, Switzerland, northern Italy and Scotland. It was much less pronounced in Eastern Europe, England, Ireland and Scandinavia. Southern Italy was not affected.

In June 1782, a servant girl in Switzerland called Anna Göldi was alleged to have made the child of her employer mentally and physically ill. The child was said to be suffering from cramps, appeared to have become lame and to have vomited nails and needles.

In the trial, the words "witchcraft" and "sorcery" were not mentioned. Instead the talk was of "poisoning". Anna Göldi was beheaded. That was the last witchtrial in Europe.

At the end of the 19th century, it was estimated that up to two million people had been killed in witchhunts. But modern research puts the top figure at 100,000 dead.

Even today, Walpurgis night is a reminder of witch hunts and also that neither superstition nor a morbid belief in witches have been eliminated.

A few years ago there were whisperings in a Belgian village that a farmer's wife had a black hand and that she had had a hand in accidents that two other villagers had had. It was being said that at nights she changed into a black cat.

Not without reason did Erich Kästner write in 1958: "The bloody red of the stake is evergreen."

Anton Simons

(Allgemeine Zeitung, Mainz, 11 July 1985)

Archives stores everything for the crime-novel aficionado

Werner Puchalla, 33, and Reinhard Jahn, 31, have involved themselves for four years in murder and manslaughter, robbery and drug dealing, extortion and espionage.

They run an archive in Bochum with the initials BKA, which are also, not coincidentally, the initials of the *Bundeskriminalamt*, the Federal CID. It is the only centre in West Germany where everything to do with books about crime and their authors is systematically collected.

It began almost by accident. Jahn followed his interest in make-believe crime as a journalist on a magazine and as the author of several books and plays.

He often worked with Puchalla, an advertising copywriter. And the information piled up: books, information about publishers, newspaper articles. One day they collated it all — and the BKA was born.

The library, which is housed in their private homes in Essen and Bochum, in the Ruhr, gets no public funds. It serves as a reference point for specialists in the field and students. There are 11,000 books and information about 200 authors, enough for students to get enough material for state examinations.

There is a practical side to its work: information about weapons used in armed robbery both in East Germany and West Germany is stored, allowing something to be learned about regional connections in crime.

Public libraries often don't keep such books because they are regarded as being *unsensitös* (a very serious accusation in Germany).

Jahn explains that the archive is not a public library and, because it is kept in private homes, access must be restricted to readers with "above average interest" in the subject.

So the BKA has developed as a centre for all sorts of events to do with this genre. Last year, for instance, it arranged an exhibition, "Crime and Fiction," as part of a meeting of authors where demonstrations were made about how a book is put together — from source material to draughts and manuscripts.

The archive also works with publishers of anthologies and moderators of seminars and discussions.

Jahn and Puchalla put their archive together with books from all over Germany. Every time they travelled somewhere, they bought books at flea markets and second-hand shops. Berlin was a particularly fruitful hunting ground.

Jahn says crime novels cost a mark regardless of author or quality or other factor. Sometimes, dealers mark up older books.

Some publishers are now being more careful about looking after the more important authors and offering improved, carefully translated books and unabridged new books.

Crime novels used to be kept down to

150 pages. That is changing. For example, Dörmann has brought out new series of Raymond Chandler and Georges Simenon works in their entirety. So no one now need mourn the absence of first editions.

The archive has some notable old books on its shelves, including one in which James Bond had his first adventure in Germany.

The crime novel is improving its image and some publishers are more often bringing them out presented as "more serious" literature — and cashing in by doing it.

To promote the genre, Jahn and Puchalla have backed the until-now independent German crime novel prize for which a panel seeks out the best from the 300 or 400 or so new books every year.

But the prize is so far only for the honour — and the publicity helps sales. The archive hasn't the money to make a cash award and it can only look with envy at America where the Edgar Allan Poe Award of the Mystery Writers' Association carries hefty money prizes.

The BKA has set itself the task of drawing up a bibliography of all crime novels that have appeared in Germany. Puchalla has begun by taking post-war books. That means he must go through publishers' records, old newspapers and other antiquarian sources to list the 20,000-odd titles.

The pair reckon it will take until the mid-1990s to complete the job.

Ralf Stiefel

(Deutsches Allgemeines Sonntagsblatt, Hamburg, 5 July 1987)

■ SOCIETY

Addict-prostitutes biggest Aids risk

DIE WELT

North Rhine-Westphalia has become the first German Land to opt for the use of methadone as a heroin substitute to treat addicts. The State Health Minister, Hermann Heinemann, said there would be an initial five-year trial period.

Addicts have made West Germany's a closely related drug and prostitution problems a much more complicated and deadly matter.

Drug addicts needing money, particularly those already HIV-positive, are the biggest Aids threat in Ruhr cities.

Although the State says chemists should sell hypodermic syringes for a few pennings without asking too many questions, many addicts still indiscriminately grab the nearest used needle they can find.

Düsseldorf alone has some 2000 heroin addicts, half of them women.

Unlike men, nearly all the women pay for their drugs by selling sex.

A woman has to pay DM500 for a fix in Bochum. In Düsseldorf it can be as low as DM400 because the market is flooded.

But whatever the price, an addict needs between DM12,000 and 15,000 a month.

A conservative estimate puts the number of Aids carriers among prostitutes at between 150 and 200.

More horrifying: a prostitute can earn 30 per cent more if she uses no condom.

As Dr Heiner Klinkhammer, of the Düsseldorf Ministry of Health and Social Services put it: "The red-light districts are subject to the laws of market forces."

The customers want quick fun and are prepared to pay extra for unusual requests that don't require condoms.

Hermann Heinemann, SPD Minister for Health in Düsseldorf receives letters regularly from girls which confirm the worst fears.

The writers admit having Aids but are forced to work on to pay for drugs.

The letters are a constant reminder to the Minister of the horrors which he witnessed while visiting clinics in California.

He saw the horrible way that Aids patients met their end. They were, he said, "pictures which will haunt me for the rest of my life." In of his position, Dr Klinkhammer is the closest rival to the Minister in terms of the number of addicts.

Continued from page 12

Bielefeld environmental affairs official Uwe Lahl is worried the Ossenbühl report may be used to sideline public-sector consumer advice bureaux.

"The work of consumer test magazines will then be in danger," he says. "In many cases their findings are based on tests conducted by the authorities."



Hypodermic dispenser

Drug addicts in Bremen can now buy new hypodermic syringes for a few pennings from this converted cigarette dispensing machine. There are plans to install two more in the city.

(Photo: AP)

methadone a try. Many observers say it's the only realistic alternative and has met with success abroad.

Heroin addicts can if they want, get therapy, which gives controlled dosages under strict supervision of the heroin substitutes methadone or pamlidon.

This method has enabled state clinics abroad to achieve a far-reaching social re-integration of addicts.

Many are holding down jobs. On the way to work the health authorities give them the substitute drugs.

Fixers no longer have to hunt down money and are free from dependency on dealers and the needle.

Setting up systems whereby the state itself becomes the dealer has been a political and legal problem even in countries where such schemes have gained a foothold.

In West Germany the proposal has run into controversy. The Ministry for Health has given methadone a firm thumbs down.

The main obstacle is the present state of German law. The federal law for infectious diseases restricts the use of dangerous narcotics.

Admittedly health ministers of the different *Länder* have recently allowed individual cases to receive the drug orally because of the high percentage of Aids carriers. They hope to stem the spread of the disease by needles.

At the moment General Medical Council has judicial inquiries against 32 doctors on its hands who gave addicts methadone.

North Rhine Westphalia will therefore have to wait for a government decision on liberalising the law.

The fixers themselves are imploring the state for this help. Some have even gone as far as revealing to Heinemann their carefully defended anonymity.

It would seem that fear of the consequences of addiction is stronger than fear of legal ones.

As one addict in a letter to the Ministry put it: "The only hope I have left is methadone. Otherwise I haven't a hope of staying alive for long."

Helmut Breuer

(Die Welt, Hamburg, 8 July 1987)

Drug arrests up — but so is the smuggling

The drugs problem is getting more serious. The number of hard-drug users is increasing.

Udo Nickel, head of the customs drug squad in Düsseldorf, (OFD) says, "We are slowly being swamped by drug smuggling." A lot of it comes across the 174 kilometer long Dutch-German border on the West of the Rhine. In the first half of this year more than 2,600 drug smugglers were arrested. This exceeded the same time for the previous year by about 100.

The authorities recorded increases in smuggling arrests for all major drugs on the previous year. Hashish was at 160 kilos up by a tenth. Cocaine amounted to six kilos, up by 150 per cent. Heroin was 2.5 kilos, about a quarter more.

In addition to that the Düsseldorf authorities claim increases of up to 700 per cent for hash and one kilo of amphetamines was confiscated.

West Germany is now faced with illegal laboratory-produced amphetamines which are cropping up all over the place.

Nickel said "It's no longer just a case of unemployed people and young people from Germany and Holland who are acting as couriers. We are now arresting Africans, young dancers and even old-age pensioners from South America."

It has now become difficult for the drug squad to work with any prototype of the typical drug smuggler anymore. Things have changed a lot since the hippy days.

The Federal Customs Criminal Institute in Cologne said that smugglers were obviously flying from South America to West Germany. They then travelled by train to Amsterdam, the distribution centre.

They can quote the case of a 30-year-old Brazilian woman who was caught on the Italian-Holland express train with 2.5 kilos of cocaine hidden in a baby's chair.

On another train they caught a 68-year-old Venezuelan woman with three kilos of cocaine. The women later admitted to having made two other trips for a 26-year-old Mexican.

Erich Schlautmann, press spokesman for the OFD, says that despite drug hunting successes, the amount that gets through can't even be estimated.

Control at the German-Dutch border has been stepped up. The amount getting into Holland is so much that a market glut is forcing Amsterdam prices down.

Nickel gave an example of how resourceful smugglers can be. "We have often found drugs in harmless looking tin cans sealed by machines which can be bought by dealers," he said.

Drugs are often smuggled in by the ton. Hashish is smuggled in trucks or ships from the Balkans, or the Near or Far East and North Africa. Large quantities of heroin are smuggled from the Middle East in aircraft like cocaine is smuggled in from South America. The India-West Germany air route is the most popular route.

They try anything. The favourite hiding places are the human body, wooden figures, radios, the use of people who just don't look like they would smuggle chewing gum, and on the train itself all kinds of nooks and crannies, including the toilet bowl.

Gustav Brand

(Saarbrücker Zeitung, 8 July 1987)